Project/Site: MVP		City/County: Pittsylvania Sampling Date: 04/02/2019					
Applicant/Owner: MVP							
Investigator(s): A. Bensted, J. Kraus, A. Larson Section, Township, Range: N/A							
Landform (hillslope, terrace, etc	.): Hillslope	 Local reli	ef (concave, convex, none	e): Concave	Slope (%): 15		
Subregion (LRR or MLRA): LRRP Lat: 36.965249 Long: -79.598711 Datum							
Soil Map Unit Name: Madisor							
Are climatic / hydrologic condition			_				
Are Vegetation, Soil	, or Hydrology	significantly distur	bed? Are "Normal (	Circumstances" p	present? Yes No		
Are Vegetation, Soil				plain any answe	rs in Remarks.)		
			•		, important features, etc.		
Lludranhutia Vanatatian Drass	nt2	No					
Hydrophytic Vegetation Presel Hydric Soil Present?	·	No	Is the Sampled Area				
Wetland Hydrology Present?		No	within a Wetland?	Yes	No		
Remarks:							
Cowardin Code:PFO HG	in:slope wirkev	VVVN					
Information listed on this form represents the data collected in 2015. The wetland was revisited on 11/15/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.							
HYDROLOGY							
Wetland Hydrology Indicato	rs:		9	Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum o	of one is required; chec	k all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	<u></u>	True Aquatic Plants (	B14) _	Sparsely Ve	getated Concave Surface (B8)		
✓ High Water Table (A2)	_	Hydrogen Sulfide Ode	or (C1)	Drainage Pa	tterns (B10)		
✓ Saturation (A3)	_	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	ines (B16)		
Water Marks (B1)		Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)		
Sediment Deposits (B2)		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bur	rows (C8)		
Drift Deposits (B3)		Thin Muck Surface (C	[7]	Saturation Vi	sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)		Other (Explain in Ren	narks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)			<u>-</u>	Geomorphic	Position (D2)		
Inundation Visible on Aeri	al Imagery (B7)		. <del>-</del>	Shallow Aqu	itard (D3)		
Water-Stained Leaves (B9	9)		. <del>-</del>	Microtopogra	aphic Relief (D4)		
Aquatic Fauna (B13)			-	FAC-Neutral	Test (D5)		
Field Observations:							
Surface Water Present?	Yes No						
Water Table Present?	Yes _ 🗸 No	Depth (inches):	10				
Saturation Present?	Yes _ 🗸 No		0 Wetland Hy	/drology Preser	nt? Yes 🗸 No		
(includes capillary fringe)			·ious inspections) if sucil	abla			
Describe Recorded Data (stre	am gauge, monitoring v	weii, aeriai priotos, pre	vious inspections), ii avail	able.			
Remarks:							
Surface water (no depth)	present within we	tland, but not with	in plot.				

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-D3

15!	Absolute	Dominant		Dominance Test worksheet:	
Tree Stratum (Plot size: 15')		Species?		Number of Dominant Species	
1. Fraxinus pennsylvanica	30		FACW_	That Are OBL, FACW, or FAC: 4	(A)
2				Total Number of Dominant	
3				Species Across All Strata: 5	(B)
4				Demonst of Demoisers Consider	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 80	) (A/B)
6					(,,,,)
7.				Prevalence Index worksheet:	
	30	= Total Cov	/er	Total % Cover of: Multiply	
50% of total cover:15				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1. Carpinus caroliniana	10	<b>✓</b>	FAC	FAC species x 3 =	
2		-	· <u></u>	FACU species x 4 =	
			· -	UPL species x 5 =	
3				Column Totals: (A)	
4				(*,)	(=)
5				Prevalence Index = B/A =	
6			· -	Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegeta	ation
8			<u> </u>	✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
_		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provi	ide supportina
50% of total cover:5	20% of	total cover	: 2	data in Remarks or on a separate	
Herb Stratum (Plot size: 5')	_			Problematic Hydrophytic Vegetation <sup>1</sup>	,
1. Juncus sp.	7		ND	1 Toblematic Hydrophytic Vegetation	(Explain)
2. Carex sp	5		ND	1 Indicators of budgie soil and watland budg	rala au como cat
3. Daucus carota	5		<u>UPL</u>	<sup>1</sup> Indicators of hydric soil and wetland hydr be present, unless disturbed or problemate	
4. Impatiens capensis	5		FACW_	Definitions of Four Vegetation Strata:	
5				Deminions of Four Vegetation Strata.	
6				Tree – Woody plants, excluding vines, 3 i	
7			· · · · · · · · · · · · · · · · · · ·	more in diameter at breast height (DBH), height.	regardless of
8			·	noight.	
9.	-			Sapling/Shrub – Woody plants, excluding	
-			· ——	than 3 in. DBH and greater than or equal m) tall.	το 3.28 π (1
10	-	-	· ——	,	
11	22	<del></del>	· <del></del>	Herb – All herbaceous (non-woody) plant	
EON/ of total agrees 11		<ul><li>Total Cover total cover</li></ul>		of size, and woody plants less than 3.28 f	ı ıaıı.
50% of total cover: 11	20% 01	total cover		Woody vine – All woody vines greater that	an 3.28 ft in
Woody Vine Stratum (Plot size:)  1 Lonicera japonica	10	./	<b>540</b>	height.	
·· <del>·</del>			<u>FAC</u>		
2					
3			· ·		
4	-			Hydrophytic	
5				Vegetation	
		= Total Cov	_	Present? Yes No	
50% of total cover:5	20% of	total cover	2		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Tree plot limited to 15' due to small/narrow size of wetland. PFO determined due to presence of green ash, ironwood, and red maple covering at least 30% of wetland. Herbs not identifiable to species due to early phenology were not used in dominance test.

### ND- Not determined

\*Vegetation not ID'd down to species level not included in dominance test.

Sampling Point: W-D3

Profile Desc	cription: (Describe t	o the dep	th needed to docur	ment the	indicator	or confirn	n the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4	10YR 5/1	60	2.5Y 6/4	40	С	M	LS	
4-5	10YR 2/1	100					LS	
5-6	10YR 5/1	60	2.5Y 6/4	40	С	М	LS	
6-7	10YR 2/1	100					LS	
7-15	10YR 5/1	60	2.5Y 6/4	40	С	М	LS	
							-	
							-	
<del></del>						·		
	oncentration, D=Depl	etion, RM=	Reduced Matrix, M	S=Masked	d Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil			5 . 6 .	(07)				cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		oo (CO) <b>(I</b>	AL DA 447		2 cm Muck (A10) (MLRA 147)
	pipedon (A2) istic (A3)		Polyvalue Be Thin Dark Su				, 148)	Coast Prairie Redox (A16) (MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			147, 140)		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		(1 2)			(MLRA 136, 147)
	uck (A10) <b>(LRR N)</b>		Redox Dark		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da					Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre					,
Sandy M	Mucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Mass	es (F12) (	LRR N,		
	A 147, 148)		MLRA 13	-				
	Bleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
-	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 14	<b>7)</b> u	inless disturbed or problematic.
	Layer (if observed):							
Type: <u>G</u> ı								
	ches): <u>15</u>						Hydric So	oil Present? Yes No
Remarks:								
Below 10"	water table obsc	ured laye	ering.					



Photograph Direction South

Date: 04/02/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/15/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/County: Pittsylvania Sampling Date: 04/02/20						
Applicant/Owner: MVP		State: VA Sampling Point: W-D3						
Investigator(s): A. Bensted, J. Kraus	, A. Larson							
Landform (hillslope, terrace, etc.): Hillslo					Slope (%): 15			
Subregion (LRR or MLRA): LRRP					Datum: NAD 83			
Soil Map Unit Name: Madison fine sail								
Are climatic / hydrologic conditions on the			_					
Are Vegetation, Soil, or Hy								
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta				explain any answe				
JOHNMANT OF THEDINGS - AND	1011 SILE III	ap snowing .		ons, transects	, important reatures, etc.			
Hydrophytic Vegetation Present?	is the sample							
Hydric Soil Present?	Yes		within a Wetland?	Yes	No <u> </u>			
Wetland Hydrology Present?  Remarks:	Yes	_ No						
Upland								
HYDROLOGY								
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of one is re	quired; check	call that apply)		Surface Soil				
Surface Water (A1)		True Aquatic Pla	nts (B14)	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Hydrogen Sulfide		Drainage Pa				
Saturation (A3)		Oxidized Rhizosp	oheres on Living Roots (C3)	Moss Trim Li	ines (B16)			
Water Marks (B1)		Presence of Red	uced Iron (C4)	Dry-Season	_ Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Red	uction in Tilled Soils (C6)	Crayfish Buri	rows (C8)			
Drift Deposits (B3)		Thin Muck Surface		Saturation Vi	sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in	Remarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)				Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery	(B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations: Surface Water Present? Yes	No. V	Depth (inches):						
		Depth (inches):						
		Depth (inches):		Hardaalaan Duaaan	42 Vaa Na <b>V</b>			
(includes capillary fringe)	_ NO	Depth (inches):_	wetiand	Hydrology Presen	nt? Yes No			
Describe Recorded Data (stream gauge,	monitoring w	vell, aerial photos	, previous inspections), if av	ailable:				
Remarks:								
Nomano.								

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-D3 UPL	
t worksheet:	

Troo Stratum (Blat size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stiatum (Fiot Size.		Species?	<u>Status</u>	Number of Dominant Species
<sub>1.</sub> Fagus grandifolia	30		<u>FACU</u>	That Are OBL, FACW, or FAC: (A)
2. Quercus montana	25		<u>UPL</u>	Total Number of Danisant
3. Quercus alba	20	<b>✓</b>	FACU	Total Number of Dominant Species Across All Strata:6 (B)
4. Ostrya virginiana	15		FACU	openies / toross / tir otrata.
"			17100	Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0% (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 45	20% of	total cover:	18	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Fragus grandifolia	45	<b>/</b>	FACU	FAC species x 3 =
2. Ostrya virginiana	15			FACU species x 4 =
			F <u>ACU</u>	UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Dravelance Index D/A
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	60	= Total Cov	er	
50% of total cover: 30	20% of	total cover	12	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1 Asarum canadense	5	<b>✓</b>	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
·· <del>·</del>			1 700	
2		· <del></del>		<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				beninions of Four Vogetation offata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
··· <u> </u>	5	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cover:		of size, and woody plants less than 3.20 it tall.
4.51	20% 01	total cover	<u>'</u>	Woody vine – All woody vines greater than 3.28 ft in
/ voody vine Stratum (1 lot size)				height.
<sub>1.</sub> None				
2				
3				
4				
				Hydrophytic
5				Vegetation Present? Yes No ✔
2		= Total Cov	_	Present? Yes No
50% of total cover:0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			
Half tree plot done due to close proximity to wet	land.			
, ,				

Sampling Point: W-D3 UPL

Profile Desc	ription: (Describe t	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicate	ors.)		
Depth	Matrix		Redox	x Features	3						
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks		
0-4	10YR 4/1	100			RM	M	LoSa	Live roc	ts on surfa	ace, no red	xob
4-8	10YR 5/4	100					LoSa				
8-16	10YR 6/2	95	10YR 6/6	5			LoSa				
					-						
				-	-						
					-	-					
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ains.	<sup>2</sup> Location: P				
Hydric Soil	Indicators:						Indic	ators for Pr	roblematic F	lydric Soils <sup>3</sup>	·:
Histosol			Dark Surface					•	A10) <b>(MLRA</b>	•	
	oipedon (A2)		Polyvalue Be				148) 0		Redox (A16	5)	
	stic (A3)		Thin Dark Su			47, 148)	_	(MLRA 14		(540)	
	en Sulfide (A4) d Layers (A5)		Loamy Gleye Depleted Mate		-2)		⊦	edmont Fid	oodplain Soil:	s (F19)	
	uck (A10) <b>(LRR N)</b>		Redox Dark \$		6)		\		, 147) Dark Surfac	رTF12)	
	d Below Dark Surface	e (A11)	Depleted Dar						in in Remark		
	ark Surface (A12)	,	Redox Depre				_	( )		-,	
Sandy M	Mucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	es (F12) <b>(</b>	LRR N,					
	A 147, 148)		MLRA 130	-							
	Gleyed Matrix (S4)		Umbric Surfa						ydrophytic ve		i
	Redox (S5)		Piedmont Flo					-	logy must be		
	Matrix (S6)		Red Parent M	faterial (F	21) <b>(MLR</b>	A 127, 147	<b>7)</b> un	less disturb	ed or probler	natic.	
	Layer (if observed):										
Type:									.,	/	
	ches):						Hydric Soil	Present?	Yes	_ No <u> </u>	_
Remarks:											

Project/Site: MVP	City/County: Franklin	Sampling Date: 11/22/15			
Applicant/Owner: MVP		State: VA Sampling Point: W-MM17			
• •	Section, Township, Range: N				
• ( )		one): Concave Slope (%): 2-5%			
Subregion (LRR or MLRA): LRRN					
	rush complex, 15 to 25 percent slopes				
	ical for this time of year? Yes No				
		al Circumstances" present? Yes No			
Are Vegetation, Soil, or Hydrology	naturally problematic? (If needed,	explain any answers in Remarks.)			
SUMMARY OF FINDINGS – Attach si	te map showing sampling point locati	ons, transects, important features, etc.			
Hydrophytic Vegetation Present? Yes _					
Hydric Soil Present? Yes _	Is the Sampled Area				
Wetland Hydrology Present? Yes _	No within a Wetland?	Yes No			
Remarks: Cowardin Code: PEM	HGM: Slope Water Type:	PDW/WD			
Cowardin Code. PEIVI	ridivi. Slope Water Type.	REVVVD			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)			
Primary Indicators (minimum of one is required;	check all that apply)	Surface Soil Cracks (B6)			
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)			
Saturation (A3)	✓ Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)			
Water Marks (B1)	Presence of Reduced Iron (C4)	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)		Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)			
Water-Stained Leaves (B9)		Microtopographic Relief (D4)			
Aquatic Fauna (B13)		FAC-Neutral Test (D5)			
Field Observations:					
	Depth (inches):				
Water Table Present? Yes No _					
	Depth (inches): 0 Wetland	Hydrology Present? Yes No			
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, previous inspections), if av	ailahle:			
Bescribe Necorded Bata (stream gauge, monito	ing well, acrial photos, previous inspections), il av	allabio.			
Remarks:					

#### **VEGETATION (Fo**

	Absolute	Dominan	t Indicator	Dominance Test worksheet:	
ree Stratum (Plot size: 30' )	% Cover			Number of Dominant Species	
				That Are OBL, FACW, or FAC: 4	_ (A)
				Total New horse of Description	
				Total Number of Dominant Species Across All Strata: 7	(B)
					_ (5)
				Percent of Dominant Species That Are OBL FACW or FAC: 80%	(A (D)
				That Are OBL, FACW, or FAC: 80%	_ (A/B)
	<del></del>			Prevalence Index worksheet:	
		T		Total % Cover of: Multiply by:	
50% of total cover:		<ul><li>Total Co total cove</li></ul>	_	OBL species x 1 =	
	20% 01	total cove	r: <u> </u>	FACW species x 2 =	
apling/Shrub Stratum (Plot size: 15'	_) 15		FAC	FAC species x 3 =	
Lindera benzoin					
Rosa Multiflora	10		F <u>ACU</u>	FACU species x 4 =	
				UPL species x 5 =	
				Column Totals: (A)	(B)
·				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
				1 - Rapid Test for Hydrophytic Vegetation	
	, <u></u>			✓ 2 - Dominance Test is >50%  1	
	25	= Total Co	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:				4 - Morphological Adaptations <sup>1</sup> (Provide su	upporting
lerb Stratum (Plot size: 5' )				data in Remarks or on a separate shee	et)
Cyperus esculentus	10	~	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	lain)
Persicaria pensylvanica	10	<u> </u>	FACW		
Poa sp.*	10		ND ND	<sup>1</sup> Indicators of hydric soil and wetland hydrology	y must
				be present, unless disturbed or problematic.	
Rumex sp.*	<u>10</u> 5		ND ND	Definitions of Four Vegetation Strata:	
_Juncus effucus	5	-	FACW_	Tree – Woody plants, excluding vines, 3 in. (7.	6 om) or
i				more in diameter at breast height (DBH), regain	,
				height.	
·				Conline/Chauch Woody plants evaluating vin	
<u>.</u>				Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than or equal to 3.3	
0				m) tall.	
1				Herb – All herbaceous (non-woody) plants, reg	a a rall a a a
	45	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.	
	22.5 20% of			<b>Woody vine</b> – All woody vines greater than 3.	28 ft in
50% of total cover:	22.5 20% of			height.	
50% of total cover:  Voody Vine Stratum (Plot size: 15' )		~	FAC	noight.	
50% of total cover:  Voody Vine Stratum (Plot size:15')  Lonicera japonica	25		F <u>AC</u>	no.gr	
50% of total cover:  Voody Vine Stratum (Plot size: 15' )  Lonicera japonica	25		F <u>AC</u>	norgin.	
50% of total cover:  Voody Vine Stratum (Plot size:15')  Lonicera japonica	25		- —— - ——	norgin.	
50% of total cover:  Voody Vine Stratum (Plot size:15')  Lonicera japonica	25		- —— - ——	Hydrophytic	
50% of total cover:  Voody Vine Stratum (Plot size: 15' ) Lonicera japonica	25		- —— - ——	Hydrophytic Vegetation	
50% of total cover:  Voody Vine Stratum (Plot size: 15' )  Lonicera japonica	25	= Total Co	ver	Hydrophytic	-
50% of total cover:  Voody Vine Stratum (Plot size: 15' )  Lonicera japonica	25	= Total Co	ver	Hydrophytic Vegetation	-
50% of total cover:  Noody Vine Stratum (Plot size: 15' )  Lonicera japonica  2	25 12.5 20% of	= Total Co	ver	Hydrophytic Vegetation	-
50% of total cover:  Noody Vine Stratum (Plot size:15') Lonicera japonica  50% of total cover:	25 25 12.5 20% of arate sheet.)	= Total Co	ver	Hydrophytic Vegetation	-

\*Not identified to species, not included in dominance test

Depth	Matrix Color (moist)	%		x Features		Loc <sup>2</sup>	Texture		Domork	•
(inches) 0-10"	10YR 3/1	<del></del> _ 95	Color (moist) 7.5YR 3/4	<u>%</u> 5	Type <sup>1</sup>	M/PL	SIL		Remark	.5
	1018 3/1	95	7.51R 3/4	5	<u> </u>	IVI/PL	SIL			
10"+									Refusa	I CF
								-		
					-					
	ncentration, D=Depl	etion RM-I	Peduced Matrix MS	S-Macked	Sand G	raine	<sup>2</sup> Location: P		ing M-Matri	iv
ype. C=C0 ∕dric Soil Iı		ellon, Kivi=i	Reduced Matrix, Mc	=iviaskeu	Sanu G	iaiiis.				Hydric Soils <sup>3</sup> :
_ Histosol (			Dark Surface	(97)					A10) <b>(MLRA</b>	-
_	ipedon (A2)		Polyvalue Be		ر (S8) را	MI R Δ 147			Redox (A1	
_ Histic Epi _ Black His			Thin Dark Su				. +0, 0	MLRA 14)		~,
	n Sulfide (A4)		Loamy Gleye			141, 140)	Р	•	oodplain Soi	ils (F19)
	Layers (A5)		Depleted Mar	•	_,		<del></del> ·	(MLRA 13		()
	ck (A10) (LRR N)		Redox Dark	. ,	6)		V		v Dark Surfa	ice (TF12)
	Below Dark Surface	(A11)	Depleted Dar	•	,			•	in in Remar	, ,
_ Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	3)					
_ Sandy M	ucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan	ese Masse	s (F12)	(LRR N,				
MLRA	147, 148)		MLRA 13	6)						
_ Sandy GI	leyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(</b> I	MLRA 1	36, 122)	<sup>3</sup> Ind	icators of h	ydrophytic v	egetation and
_ Sandy Re	edox (S5)		Piedmont Flo	odplain Sc	oils (F19	) <b>(MLRA 14</b>	<b>8)</b> we	tland hydro	logy must b	e present,
	Matrix (S6)		Red Parent N	Naterial (F2	21) <b>(MLF</b>	RA 127, 147	<b>')</b> un	less disturb	ed or proble	ematic.
	ayer (if observed):									
,	usal due to Coarse I	ragments								
Depth (inc	<sub>hes):</sub> <u>10"</u>						Hydric Soil	Present?	Yes 🔽	No
emarks:							1			



Photograph Direction West

Comments:		

Project/Site: MVP			City/0	County: Franklin		Sampling Date: 11/22/2015			
Applicant/Owner: MVP						Sampling Point: W-MM17 upl			
Investigator(s): A.Grech, A. Stott Section, Township, Range: N/A									
Landform (hillslope, terrace, etc.): hi	llslope					Slope (%): 4-6			
Subregion (LRR or MLRA): LRRN				•		Datum: NAD 83			
Soil Map Unit Name: Minnieville-Ore									
Are climatic / hydrologic conditions on				_					
Are Vegetation, Soil, c	• •		•		•	present? Yes No			
Are Vegetation, Soil, c									
SUMMARY OF FINDINGS –		-			explain any answers				
					,				
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		_	Is the Sampled Area		•			
Wetland Hydrology Present?	Yes			within a Wetland?	Yes	No			
Remarks: Upland									
HYDROLOGY									
Wetland Hydrology Indicators:						ators (minimum of two required)			
Primary Indicators (minimum of one	-				Surface Soil Cracks (B6)				
\ <u></u>	_ Surface Water (A1) True Aquatic Plants (B14)					<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>			
High Water Table (A2)		Hydrogen S		for (C1) res on Living Roots (C3)	_				
Saturation (A3) Water Marks (B1)		Presence of		-	Moss Trim L	Water Table (C2)			
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bu				
Drift Deposits (B3)	_	Thin Muck S			-	/isible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Expla				Stressed Plants (D1)			
Iron Deposits (B5)					Geomorphic	Position (D2)			
Inundation Visible on Aerial Ima	gery (B7)				Shallow Aqu	uitard (D3)			
Water-Stained Leaves (B9)						aphic Relief (D4)			
Aquatic Fauna (B13)					FAC-Neutra	I Test (D5)			
Field Observations:									
Surface Water Present? Yes	No	Depth (inch	nes):	<del></del>					
	No								
Saturation Present? Yes (includes capillary fringe)	No	Depth (inch	nes):	Wetland F	lydrology Prese	nt? Yes No			
Describe Recorded Data (stream ga	uge, monitoring v	well, aerial ph	notos, pre	evious inspections), if ava	ilable:				
Remarks: Upland									
Opiand									

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-MM17 upl

Troe Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30 ) 1 Quercus rubra	% Cover 25	Species? ✓		Number of Dominant Species That Are OBL FACW or FAC: 2 (A)
2. Pinus virginiana	25		FACU	That Are OBL, FACW, or FAC: (A)
			<u>UPL</u>	Total Number of Dominant
3				Species Across All Strata: 6* (B)
4				Percent of Dominant Species
5		-		That Are OBL, FACW, or FAC: 33% (A/B)
6				Prevalence Index worksheet:
7	50			Total % Cover of: Multiply by:
50% of total cover:25		= Total Cov total cover:		OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	20% 01	total cover.		FACW species x 2 =
1. Chamaecyparis thyoides	20	~	OBL	FAC species x 3 =
2. Pinus virginiana	20	<u> </u>	UPL	FACU species x 4 =
3. Ligustrum vulgare	15		UPL	UPL species x 5 =
· · · · · · · · · · · · · · · · · · ·			UPL	Column Totals: (A) (B)
4		-		(7)
5		-		Prevalence Index = B/A =
6		-		Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 27.5		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )	<u>20%</u> 01	total cover.		data in Remarks or on a separate sheet)
1. Poa sp.*	60	~	ND	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			IND	
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		-		more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				,
11	60	Tatal Cau		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 30		= Total Cov total cover:		
Woody Vine Stratum (Plot size: 15' )	2070 01	total cover.		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1. Lonicera japonica	40	<b>✓</b>	FAC	height.
2		-		
3		-		
4				
5.				Hydrophytic Vegetation
<u> </u>	40	= Total Cov		Present? Yes No
50% of total cover: 20		total cover:	_	
Remarks: (Include photo numbers here or on a separate s				
In cow pasture some vegetation unidentifiable	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
,				
ND - Not Determined				
*Vegetation not identified down to species not in	ncluded ir	the dom	inance te	est.

Sampling Point: W-MM17 upl

Depth	Matrix	to the depth i	needed to document the indicator or con Redox Features	iiiiii tile abselic	e of indicators.)	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Loc	Texture	Remar	ks
0-8"	5YR 4/6	100		CL		
8-15"	5YR 4/6	100		C	-	
15"+					Refusa	al· CF
	•	<del> </del>				
	•				-	
		. <u> </u>				
					-	
		<del></del>	<del></del>	<u> </u>		
		oletion, RM=Re	educed Matrix, MS=Masked Sand Grains.		PL=Pore Lining, M=Mat	
Hydric Soil					cators for Problemation	-
Histosol			Dark Surface (S7)		2 cm Muck (A10) (MLR	•
	pipedon (A2)		Polyvalue Below Surface (S8) (MLRA 1		Coast Prairie Redox (A	16)
	stic (A3) en Sulfide (A4)	-	Thin Dark Surface (S9) (MLRA 147, 14 Loamy Gleyed Matrix (F2)	•	(MLRA 147, 148) Piedmont Floodplain So	oile (E10)
	d Layers (A5)	•	Depleted Matrix (F3)		(MLRA 136, 147)	olis (F19)
	uck (A10) (LRR N)	•	Redox Dark Surface (F6)		Very Shallow Dark Surf	face (TF12)
	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Explain in Rema	, ,
	ark Surface (A12)		Redox Depressions (F8)			
	Mucky Mineral (S1) (I	LRR N,	Iron-Manganese Masses (F12) (LRR N	,		
	A 147, 148)		MLRA 136)	3		
	Gleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 122)		dicators of hydrophytic	-
	Redox (S5)		Piedmont Floodplain Soils (F19) (MLRA		vetland hydrology must	
	Matrix (S6)   Layer (if observed)		Red Parent Material (F21) (MLRA 127,	147) u	nless disturbed or prob	iematic.
Tuna. Re	fusal due to Coarse	Fragments				
	ches): 15"		_	Huddia Ca	ii Dunnanto Van	Na 🗸
	cnes): 10		<del>-</del>	Hydric So	il Present? Yes	No
Remarks:						

Project/Site: MVP		City/C	<sub>ounty:</sub> Pittsylvannia		Sampling Date: 04/02/2015
Applicant/Owner: MVP		·	,	State: VA	Sampling Point: W-B5
Investigator(s): C. Ansari, J.	Rodriguez, M. V				
Landform (hillslope, terrace, etc					Slope (%): 0
Subregion (LRR or MLRA): LR					Datum: NAD 83
Soil Map Unit Name: Madisor					
Are climatic / hydrologic condition	ons on the site typica	al for this time of year? Ye	es No (li	f no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydrology	significantly disturb	oed? Are "Normal (	Circumstances" p	oresent? Yes No
Are Vegetation, Soil				· γplain any answe	
_	-				, important features, etc.
Hydrophytic Vegetation Preser	nt? Ves V	/ No			
Hydric Soil Present?	Yes •		Is the Sampled Area	. v	
Wetland Hydrology Present?		/ No	within a Wetland?	Yes	No
Remarks:					
Cowardin: PEM HGM: d	•				
Information listed on this of wetland hydrology, hyd Supplement delineation r	drophytic vegeta	the data collected in ation, and hydric soils	n 2015. The wetland s was confirmed usir	was revisited ng the USACE	on 11/14/2019. Presence E EMP Regional
HYDROLOGY					
Wetland Hydrology Indicator	rs:		<u> </u>	Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum c	of one is required; ch	neck all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)	_	True Aquatic Plants (F	B14) _	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)	_	Hydrogen Sulfide Odd	or (C1)	Drainage Pa	tterns (B10)
✓ Saturation (A3)	_	Oxidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)	_	Presence of Reduced	Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	_	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Buri	rows (C8)
Drift Deposits (B3)	_	Thin Muck Surface (C	. <del>-</del> (7)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	_	Other (Explain in Rem	narks)	Stunted or S	tressed Plants (D1)
Iron Deposits (B5)				✓ Geomorphic	Position (D2)
Inundation Visible on Aeria	al Imagery (B7)		<u>-</u>	Shallow Aqui	tard (D3)
Water-Stained Leaves (BS	3)		<u>-</u>	Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)			<u></u>	FAC-Neutral	Test (D5)
Field Observations:					
Surface Water Present?		Depth (inches):	2		
Water Table Present?	Yes No	Depth (inches):			
Saturation Present?	Yes No	Depth (inches):	•	drology Presen	t? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (streat	am gauge, monitorir	ng well, aerial photos, pre	vious inspections), if avail	able:	
,					
Remarks:	nal watland adia	acant to an intermitte	nt atroom		
This is a small depression	hai wellanu auja	iceni io an intermite	nii Sireani.		

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-B5

יחפ	Absolute	Dominant II		Dominance Test works	neet:		
<u>Tree Stratum</u> (Plot size: <u>30'</u> )	% Cover	Species?	Status	Number of Dominant Spe That Are OBL, FACW, or		1	(A)
2				Total Novel en ef Deserve	- 1		
3				Total Number of Dominal Species Across All Strata		1	(B)
4				,			, ,
5				Percent of Dominant Spe That Are OBL, FACW, or		100	(A/B)
6				That Ale OBL, FACVV, OI	TAC		(A/D)
7				Prevalence Index works	sheet:		
	0	= Total Cove	•	Total % Cover of:	M	ultiply by:	
50% of total cover: 0				OBL species	x 1 =		_
Sapling/Shrub Stratum (Plot size: 15' )				FACW species	x 2 =		_
1				FAC species	x 3 =		
2				FACU species			
				UPL species			
3				Column Totals:			
4				Column Fotalo.	(//)		(5)
5				Prevalence Index =	= B/A =		_
6				Hydrophytic Vegetation	Indicators	s:	
7				1 - Rapid Test for Hy	drophytic V	egetation	
8				✓ 2 - Dominance Test			
9				3 - Prevalence Index			
		= Total Cove		4 - Morphological Ad		Provide sur	portina
50% of total cover: 0	20% of	total cover:_	0	data in Remarks			-
Herb Stratum (Plot size: 5')				Problematic Hydroph			
1. Glyceria striata	30		<u>DBL</u>	i iobiematic riyuropi	iyiic vegeta	uon (Expid	··· <i>·</i> )
2. Panicum sp.	5		ND	1 Indicators of hydric soil (	and wattend	l budralagu.	must
3. Scirpus atrovirens	5		<u>DBL</u>	<sup>1</sup> Indicators of hydric soil a be present, unless disturb			must
4. Carex stricta	5	(	<u>DBL</u>	Definitions of Four Veg	•		
5. Juncus effusus	5	F	ACW				
6				Tree – Woody plants, ex			
7				more in diameter at breasheight.	st neight (D	ьп), regard	1622 01
8							
9				Sapling/Shrub – Woody than 3 in. DBH and great	plants, exc	luding vines	s, less
10				m) tall.	er triair or e	quai to 5.20	511 (1
11		= Total Cove		<b>Herb</b> – All herbaceous (r of size, and woody plants			ardless
50% of total cover:25_		total cover:_		or size, and woody plants	icos tilati c	7.20 It tail.	
Woody Vine Stratum (Plot size: 15' )	2070 01			Woody vine – All woody	vines great	ter than 3.2	3 ft in
				height.			
1							
2							
3							
3				Hydrophytic			
3				Vegetation	<b>~</b>	lo.	
3	0	= Total Cove	_	Vegetation	<u>/</u> N	lo	

Sampling Point: W-B5

tile Desc	cription: (Describe	to the den	th needed to docu	ment the indi	icator (	or confirm	the absenc	e of indicators )
pth	Matrix	to the dep		x Features	icator (	or commin	ine absenc	e of maidators.)
ches)	Color (moist)	%	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
)-12	10YR 4/2	98	7.5YR 5/6	2	C	M/PL	SiL	
2-20	10YR 4/2	100					SiL	-
2-20	1011 4/2	100					SIL	
								-
	-							· ·
		. ——						
		· ——						-
		<del></del>						_
e: C=C	oncentration, D=Dep	letion, RM=	=Reduced Matrix, M	S=Masked Sa	and Gra	ains.	<sup>2</sup> Location:	PL=Pore Lining, M=Matrix.
	Indicators:							cators for Problematic Hydric Soils
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		(S8) <b>(M</b>	ILRA 147,		Coast Prairie Redox (A16)
Black Hi	istic (A3)		Thin Dark Su	urface (S9) <b>(N</b>	ILRA 1	47, 148)		(MLRA 147, 148)
Hydroge	en Sulfide (A4)		Loamy Gleye	ed Matrix (F2)	)		_	Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
	uck (A10) (LRR N)		Redox Dark	, ,				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Da		7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre		(= . a) (			
	Mucky Mineral (S1) (L	_RR N,	Iron-Mangan		(F12) <b>(I</b>	_RR N,		
	A 147, 148)		MLRA 13		DA 40	C 400\	31	diantana af hduamb. 4ia
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	Redox (S5) I Matrix (S6)		Piedmont Florent I					retland hydrology must be present, nless disturbed or problematic.
	Layer (if observed):		Neu i aleiki	viateriai (i 2 i)	) (IVILIX	A 121, 141)	u	riless disturbed of problematic.
	ches):		<del></del>				Hydric So	il Present? Yes No
arks:								



Photograph Direction SW

Date: 04/02/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 11/14/19

Project/Site: MVP		City/C	ounty: Pittsylvannia		Sampling Date: 04/02/2015
Applicant/Owner: MVP					Sampling Point: W-B5 UPL
Investigator(s): C. Ansari, J. Rodrigu	ıez, M. Whi	itten <sub>Sectio</sub>	on Township Range N/		<u> </u>
Landform (hillslope, terrace, etc.): Hillslo					Slone (%): 0
Subregion (LRR or MLRA): LRRP	l ato	36 959328			Datum: NAD 83
Subregion (LRR or MLRA): LINKI	Lat:	15 to 25 percent (	_		
Soil Map Unit Name: Madison fine sa					
Are climatic / hydrologic conditions on the					·
Are Vegetation, Soil, or H	ydrology	significantly distur	bed? Are "Normal	Circumstances" p	oresent? Yes No
Are Vegetation, Soil, or H	ydrology	naturally problema	atic? (If needed, e	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Att	ach site m	ap showing sam	pling point location	ns, transects	s, important features, etc.
Hydrophytic Vegetation Present?	Voo	No. V			
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes		Is the Sampled Area		1
Wetland Hydrology Present?	Yes	No V	within a Wetland?	Yes	No
Remarks:					
Upland					
LIVERGLOOV					
HYDROLOGY Westland Hydrology Indicators				Cocondon/Indio	otors (minimum of two required)
Wetland Hydrology Indicators:	auirad: abaak	( all that apply)			Crooks (PS)
Primary Indicators (minimum of one is re			D14)	Surface Soil	` ,
Surface Water (A1)		True Aquatic Plants (			getated Concave Surface (B8)
<ul><li>High Water Table (A2)</li><li>Saturation (A3)</li></ul>		Hydrogen Sulfide Ode	es on Living Roots (C3)	Drainage Pa Moss Trim L	
Water Marks (B1)		Presence of Reduced	-		Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	
Drift Deposits (B3)		Thin Muck Surface (C		-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren			tressed Plants (D1)
Iron Deposits (B5)		Other (Explain in Itel)	nans)		Position (D2)
Inundation Visible on Aerial Imagery	v (B7)			Shallow Aqu	
Water-Stained Leaves (B9)	y ( <i>Di</i> )				aphic Relief (D4)
Aquatic Fauna (B13)				FAC-Neutral	. , ,
Field Observations:					()
	No 🗸	Depth (inches):			
Water Table Present? Yes	No V	Depth (inches):			
		Depth (inches):		lydrology Preser	nt? Yes No
(includes capillary fringe)					
Describe Recorded Data (stream gauge	, monitoring w	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Remarks:					

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Poi	nt: <u>W-B5 U</u>	PL
ce Test worksheet:		
of Dominant Species OBL, FACW, or FAC:	0	_ (A)

201	Absolute		t Indicator	Dominance Test worksheet:		
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species	0	
1. Juniperus virginiana	30		<u>FACU</u>	That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	3	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	0	(A/B)
6						` ,
7				Prevalence Index worksheet:		
	30	= Total Co	ver	Total % Cover of:	Multiply by:	
50% of total cover:15	20% of	total cove	r: <u>6</u>	OBL species x		
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
4				FAC species x	3 =	_
2				FACU species x	4 =	_
3				UPL species x	5 =	_
4				Column Totals: (A	v)	(B)
5		-				
				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indica	itors:	
7				1 - Rapid Test for Hydrophy	tic Vegetation	
8				2 - Dominance Test is >50%	o	
9				3 - Prevalence Index is ≤3.0	) <sup>1</sup>	
0		= Total Co		4 - Morphological Adaptation	ns <sup>1</sup> (Provide sup	porting
50% of total cover: 0	20% of	total cove	r: <u> </u>	data in Remarks or on a		
Tiors Stratam (Tior Size.	40			Problematic Hydrophytic Ve	. ,	
1. Trifolium repens	40		F <u>ACU</u>		3 (p	,
2. Dactylis glomerata	60		F <u>ACU</u>	<sup>1</sup> Indicators of hydric soil and wet	tland hydrology r	must
3				be present, unless disturbed or		iiust
4				Definitions of Four Vegetation		
5						
6				<b>Tree</b> – Woody plants, excluding more in diameter at breast heigh	vines, 3 in. (7.6	cm) or
7				height.	it (DBH), regardi	IESS 01
8						
9				Sapling/Shrub – Woody plants, than 3 in. DBH and greater than	excluding vines	, less
10				m) tall.	or equal to 5.20	) 11 ( 1
11.		-		, i		
	100	= Total Co	vor	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less the		rdless
50% of total cover: 0		total cove				
Woody Vine Stratum (Plot size: 15' )	2070 01	10101 0010		Woody vine – All woody vines g	greater than 3.28	3 ft in
				height.		
1						
2						
3						
4		-		Hydrophytic		
5	^			Vegetation Present? Yes	No. V	
		= Total Co	_	riesent: ies	_ NO <u> </u>	
50% of total cover:0		total cove	r:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-B5 UPL

Depth (inches)	Matrix	<u></u> %	Redox Features			Demorts
(inches)	Color (moist)		Color (moist) % Type <sup>1</sup> I	<u>oc²</u> <u>Texture</u> SL	<u> </u>	Remarks
0-13	5YR 5/6	100		<u>SL</u>		
				<del></del>	<del></del>	
					<del></del>	
Type: C-Co	ncentration D-Der	letion PM-P	educed Matrix, MS=Masked Sand Grains	<sup>2</sup> l ocation	: PL=Pore Lining	M-Matrix
lydric Soil I		detion, Rivi–Ri	educed Matrix, MO-Masked Sarid Stairs			blematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)		_ 2 cm Muck (A1	
	ipedon (A2)		Polyvalue Below Surface (S8) (MLF	A 147, 148)	Coast Prairie R	
Black His			Thin Dark Surface (S9) (MLRA 147)		(MLRA 147,	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)			dplain Soils (F19)
	Layers (A5)		Depleted Matrix (F3)	_	(MLRA 136,	
	ck (A10) (LRR N)		Redox Dark Surface (F6)			Dark Surface (TF12)
Depleted	Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)	_	_ Other (Explain	in Remarks)
	rk Surface (A12)		Redox Depressions (F8)			
Sandy M	ucky Mineral (S1) (	LRR N,	Iron-Manganese Masses (F12) (LR	₹ N,		
	147, 148)		MLRA 136)			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1			rophytic vegetation and
	edox (S5)		Piedmont Floodplain Soils (F19) (M			gy must be present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 1	27, 147)	unless disturbed	l or problematic.
Restrictive L	ayer (if observed)	:				
Type:			_			_
Depth (inc	hes):		<u> </u>	Hydric	Soil Present?	Yes No
Remarks:				•		

Project/Site: MVP			City/C	county: Pittsylvannia		Sampling Date: 04/02/2015
Applicant/Owner: MVP						Sampling Point: W-B4-PSS
Investigator(s): C. Ansari, J	. Rodriguez.	M. Wh	itten Section			
Landform (hillslope, terrace, et						Clana (0(), 1
Subregion (LRR or MLRA): L						
· · · · · · · · · · · · · · · · · · ·						Datum: NAD 83
Soil Map Unit Name: Cecil s						
Are climatic / hydrologic condit	ions on the site	typical fo	or this time of year? Y	es No	(If no, explain in R	emarks.)
Are Vegetation, Soil	, or Hydro	ogy	significantly distur	bed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hydro	ogy	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Attach	site m	nap showing sam	npling point location	ons, transects	, important features, etc.
Lludrophytic Veretation Dree	ont? Vo	s 🗸	No			
Hydrophytic Vegetation Pres Hydric Soil Present?		s /	No No	Is the Sampled Area		
Wetland Hydrology Present?			 No	within a Wetland?	Yes	No
Remarks:						
Cowardin: PSS HGM: r	iverine WT:	RPWW	VD .			
Information listed on this of wetland hydrology, hy Supplement delineation	vdrophytic ve	aetatio	e data collected in and hydric soils	n 2015. The wetlands was confirmed us	d was revisited ing the USACE	on 11/14/2019. Presence E EMP Regional
					Cocondon India	toro (minimum of two required)
Wetland Hydrology Indicat		مط ماء ما	Ir all that apply)		<u> </u>	tors (minimum of two required)
Primary Indicators (minimum	or one is requir			D.(.1)	Surface Soil	· ·
Surface Water (A1)			True Aquatic Plants (			getated Concave Surface (B8)
High Water Table (A2) Saturation (A3)		_	Hydrogen Sulfide Od	es on Living Roots (C3)	Drainage Par Moss Trim Li	` '
Water Marks (B1)			Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)			Recent Iron Reductio	` '	Crayfish Buri	· ·
Drift Deposits (B3)			Thin Muck Surface (C			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Other (Explain in Ren	,		tressed Plants (D1)
Iron Deposits (B5)			<b>,</b> ,	,	Geomorphic	
Inundation Visible on Ae	rial Imagery (B7	·)			Shallow Aqui	tard (D3)
Water-Stained Leaves (E	39)				Microtopogra	phic Relief (D4)
Aquatic Fauna (B13)					✓ FAC-Neutral	Test (D5)
Field Observations:						
Surface Water Present?	Yes 1	lo	Depth (inches):	2		
Water Table Present?	Yes 1	lo	Depth (inches):	0		
Saturation Present?	Yes 🖊 🖊	No	Depth (inches):	0 Wetland H	lydrology Presen	t? Yes 🗸 No
(includes capillary fringe)  Describe Recorded Data (str	oom goligo mo	nitoring v	well parial photos pro	vious inspections) if ava	ilabla:	
Describe Recorded Data (Str	eam gauge, mo	riitorii ig v	veii, aeriai priotos, pre	vious irispections), ii ava	illable.	
Remarks:						
This is an up gradient p	ortion of W-E	4 PSS	. The feature is do	ominated by spice b	ush along side	a braided stream system.
This portion of the wetla	ınd is a scrub	shrub/	wetland.			
06/19/15-reshaping wet	land (extensi	on) tea	m P and Q (S.Ry	an, A.Grech)		

1. Platanus occidentalis 1 2	<u>over</u> 5  5  6  7  8  9  9  9  9  9  9  9  9  9  9  9  9	Total Cov	Status FACW	Dominance Test worksheet:  Number of Dominant Species That Are OBL, FACW, or FAC:  Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  100  Prevalence Index worksheet:	(A) (B) (A/B)
1. Platanus occidentalis 1 2	5 = 0% of t	Total Cov	FACW	That Are OBL, FACW, or FAC: 7  Total Number of Dominant Species Across All Strata: 7  Percent of Dominant Species That Are OBL, FACW, or FAC: 100	_ (B)
2	5 =	Total Cov		Total Number of Dominant Species Across All Strata:  Percent of Dominant Species That Are OBL, FACW, or FAC:  100	_ (B)
3	5 = 0% of t	Total Cov		Species Across All Strata: 7  Percent of Dominant Species That Are OBL, FACW, or FAC: 100	- \ /
3	5 = 0% of t	Total Cov		Species Across All Strata: 7  Percent of Dominant Species That Are OBL, FACW, or FAC: 100	- \ /
4	5 = 0% of t	Total Cov		Percent of Dominant Species That Are OBL, FACW, or FAC:  100	- \ /
5	5 = 0% of t	Total Cov		That Are OBL, FACW, or FAC:100	_ (A/B)
50% of total cover: 7.5 20  Sapling/Shrub Stratum (Plot size: 15' ) 1. Lindera benzoin 7 2. 3. 43	5 = 0% of t	Total Cov		That Ale OBE, I AOW, OI I AO.	_ (A/B)
7	5 = 0% of t	Total Cov		Prevalence Index worksheet:	
50% of total cover: 7.5 20  Sapling/Shrub Stratum (Plot size: 15' )  1. Lindera benzoin 7  2	0% of t				
50% of total cover: 7.5 20  Sapling/Shrub Stratum (Plot size: 15' )  1. Lindera benzoin 7  2	0% of t			Total % Cover of: Multiply by:	
Sapling/Shrub Stratum (Plot size: 15' )  1. Lindera benzoin 7  2			_		
1. Lindera benzoin 7 2	_	otal cover:	3	OBL species x 1 =	
2				FACW species x 2 =	
3	0		FAC	FAC species x 3 =	
3				FACU species x 4 =	
				UPL species x 5 =	
4				Column Totals: (A)	(B)
5					
				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide su	pporting
	)% of t	otal cover:	14	data in Remarks or on a separate sheet	-
Herb Stratum (Plot size: 5' )				' .	,
1. Microstegium vimineum 1	5		FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Expl	ain)
2. Leersia oryzoides 1	5		OBL	4	
3. Carex vulpinoidea 1	0	<u> </u>	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology	must
4				be present, unless disturbed or problematic.	
				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6	cm) or
6				more in diameter at breast height (DBH), regard	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vine	s. less
9				than 3 in. DBH and greater than or equal to 3.2	
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, reg	ardless
4	0 =	Total Cov	er	of size, and woody plants less than 3.28 ft tall.	ai di oco
50% of total cover: 20 20		otal cover:			0 (1)
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines greater than 3.2 height.	8 ft in
	0	<b>~</b>	FAC	neight.	
··-	0		FAC		
	<u> </u>		1 70		
3					
4				Hydrophytic	
5				Vegetation	
2		Total Cov		Present? Yes No	
50% of total cover:10 20	)% of t	otal cover:	4		
Remarks: (Include photo numbers here or on a separate sheet.)					

Sampling Point: W-B4-PSS

Depth (inches)	Matrix Color (moist)	%	Redo Color (moist)	x Features %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
				5	C	M	CL		Remarks	
0-20	5Y 4/2	95	5YR 4/6			IVI				
						· ——				
						·				
					-			-		
								-		
vne: C-Co	ncentration, D=Dep	letion RM-	Reduced Matrix M	S-Maskad	Sand Gr	aine	<sup>2</sup> Location: PL	-Pore Lini	na M–Matriy	
	ndicators:	ieuon, ixivi–	iteduced Matrix, M	J-Maskeu	Sand Oi	allis.			roblematic H	
Histosol			Dark Surface	(97)					A10) <b>(MLRA</b> 1	-
<del></del>	ipedon (A2)		Polyvalue Be		e (S8) <b>(I</b>	/II RΔ 147			Redox (A16)	
Black His			Thin Dark Su		. , .		0	(MLRA 14		,
_	n Sulfide (A4)		Loamy Gleye	, ,	•	· · · · , · · · · · ,	Pi		oodplain Soils	(F19)
	Layers (A5)		Depleted Ma		_,			(MLRA 13		(
	ck (A10) (LRR N)		Redox Dark	, ,	3)		Ve		/ Dark Surface	e (TF12)
_ Depleted	Below Dark Surface	e (A11)	Depleted Da	rk Surface	(F7)		0	ther (Expla	in in Remarks	s)
_ Thick Da	rk Surface (A12)		Redox Depre	essions (F8	5)					
_ Sandy M	ucky Mineral (S1) (L	RR N,	Iron-Mangan	ese Masse	s (F12)	LRR N,				
MLRA	147, 148)		MLRA 13	6)						
	leyed Matrix (S4)		Umbric Surfa						ydrophytic ve	-
-	edox (S5)		Piedmont Flo					-	logy must be	
	Matrix (S6)		Red Parent I	Material (F2	21) <b>(ML</b> R	A 127, 147	') unl	ess disturb	ed or problem	natic.
estrictive L	.ayer (if observed):									
Туре:			<u> </u>							
Depth (inc	:hes):		<u></u>				Hydric Soil	Present?	Yes	No
emarks:							•			

# **Wetland Photograph Page**

## Wetland ID W-B4-PSS



Photograph Direction SW

Date: 04/02/2015

Comments: 2015 wetland delineation.



Photograph Direction West

Date: 11/14/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP				City	/County: Pittsylva	ania		Sampling Da	<sub>ate:</sub> 03/31/2015		
Applicant/Owner: MVP					,				Point: W-B4 PSS UPI		
Investigator(s): C. Ansari,	J. Rodric	quez, M. V	Vhitten	Sec	tion Township Ra	nge. N/A			- · · · · · · · · · · · · · · · · · · ·		
Landform (hillslope, terrace, e						-			Slone (%)· 15		
Subregion (LRR or MLRA):					Lon				atum: NAD 83		
Soil Map Unit Name: Cecil											
•								· ·			
Are climatic / hydrologic cond									. 4		
Are Vegetation, Soil _						'Normal	Circumstances"	present? Yes	No		
Are Vegetation, Soil _	, or	Hydrology _	natu	urally probler	matic? (If ne	eded, e	xplain any answe	ers in Remarks	s.)		
SUMMARY OF FINDIN	NGS – A	ttach site	map sh	owing sa	mpling point l	ocatio	ns, transects	s, importan	t features, etc.		
				<b>~</b>							
Hydrophytic Vegetation Pre	sent?		No_ No_		Is the Sampled				,		
Hydric Soil Present? Wetland Hydrology Present	2		No No	<u></u>	within a Wetlar	nd?	Yes	No	<u></u>		
Remarks:	<u>.                                    </u>	163	110	<u> </u>							
Upland											
·											
HYDROLOGY											
Wetland Hydrology Indica	tors:						Secondary Indic	ators (minimun	n of two required)		
Primary Indicators (minimur	n of one is	required; ch	eck all tha	t apply)			Surface Soil	Cracks (B6)			
Surface Water (A1)		_	True A	quatic Plants	s (B14)		Sparsely Ve	getated Conca	ave Surface (B8)		
High Water Table (A2)		_		en Sulfide O				atterns (B10)			
Saturation (A3)								· ·			
Water Marks (B1)		=	Presen	ce of Reduce	ed Iron (C4)		Dry-Season Water Table (C2)				
Sediment Deposits (B2	)	_	Recent	Iron Reduct	tion in Tilled Soils (	C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)		=		uck Surface		•	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		-	Other (	Explain in Re	emarks)		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		4=-1				•		Position (D2)			
Inundation Visible on A	_	ery (B7)				•	Shallow Aqu				
Water-Stained Leaves Aquatic Fauna (B13)	(B9)						Microtopogr FAC-Neutra	aphic Relief (D	(4)		
Field Observations:					<u> </u>		FAC-Neulla	i resi (D3)			
Surface Water Present?	Voc	No.	Donth	(inches):							
Water Table Present?				(inches):							
Saturation Present?				(inches):		tland U	ydrology Prese	nt? Von	No. V		
(includes capillary fringe)	168	NO	Deptii	(Inches)		tuanu n	yarology Frese	iitr res	NO		
Describe Recorded Data (st	ream gaug	ge, monitorin	ıg well, aer	ial photos, p	revious inspections	s), if avai	lable:				
Damada											
Remarks:											

Sampling Point:	W-B4	PSS	UPL
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0	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 0 )		Species?		Number of Dominant Species
1. Liriodendron tulipifera	30		FACU_	That Are OBL, FACW, or FAC:1 (A)
2. Juniperus virginiana	5		FACU_	Total Number of Dominant
3. Fagus grandifolia	20	<b>~</b>	<u>FACU</u>	Species Across All Strata: 8 (B)
4. Platanus occidentalis	10		FACW	
5. Pinus virginiana	20		UPL	Percent of Dominant Species That Are OBL FACW or FAC: 12.5 (A/B)
·· <del>·</del>				That Are OBL, FACW, or FAC: 12.5 (A/B)
6		-		Prevalence Index worksheet:
7	85			Total % Cover of: Multiply by:
50% of total cover: 42.5		= Total Cov		OBL species x 1 =
	20% of	total cover:	17	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 0	40			· · · · · · · · · · · · · · · · · · ·
1. Junipers virginiania	40		FACU_	FAC species x 3 =
2. Fagus granifolia	10		FACU_	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6				Prevalence Index = B/A =
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
0.5		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 25	20% of	total cover:	10	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5'				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Polystichum acrostichoides	5		F <u>ACU</u>	Problematic Hydrophytic Vegetation (Explain)
2. Fragaria virginiana	5	<b>~</b>	FACU_	4
3. Poa trivialis	5	<b>✓</b>	FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4.				
5				Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	15;	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>7.5</u>	20% of	total cover:	3	Was devices. All was deviced as asset as the second firm
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				noight.
2.				
3				
		-		
4				Hydrophytic
5		-		Vegetation Present? Yes No ✓
0		= Total Cov	_	resent: res No
50% of total cover:0		total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-B4 PSS UPL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the in	dicator o	or confirm	the abse	ence of indicato	ors.)	
Depth	Matrix		Redo	k Features						
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Textur	re	Remarks	
0-2	10YR 3/2	100					L			
2-14	10YR 4/6	100					SCL	_		
			_				-	<del></del>		_
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion. RM=R	educed Matrix. MS	S=Masked	Sand Gra	ins.	<sup>2</sup> Locatio	n: PL=Pore Lini	ng. M=Matrix.	
Hydric Soil		04011, 1411-14	adood Matrix, Mc		ound on			ndicators for Pr		
Histosol			Dark Surface	(S7)					A10) <b>(MLRA</b> 1	
	oipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147,	148)		Redox (A16)	-
Black Hi			Thin Dark Su		. , .		, –	(MLRA 14		
Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)		_	Piedmont Flo	oodplain Soils	(F19)
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13	6, 147)	
2 cm Mu	ick (A10) (LRR N)		Redox Dark S				_	Very Shallow	/ Dark Surface	e (TF12)
	d Below Dark Surface	(A11)	Depleted Dar				_	Other (Expla	in in Remarks	s)
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane		s (F12) <b>(I</b>	_RR N,				
	A 147, 148)		MLRA 130					2		
-	Gleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of h		-
	ledox (S5)		Piedmont Flo					wetland hydro		
	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(ML</b> R	A 127, 147	<u>')                                    </u>	unless disturb	ed or problem	natic.
	_ayer (if observed):									
Type: Ro			_							
Depth (inc	ches): <u>14</u>		_				Hydric	Soil Present?	Yes	No
Remarks:										

Project/Site: MVP		City/County:	Pittsylvania	S	ampling Date: 04/01/2015				
Applicant/Owner: MVP					Sampling Point: W-C1				
Investigator(s): L.Harloe, K.Lamo	ntagne, A. Flake, E								
Landform (hillslope, terrace, etc.): To	eslope	Local relief (cond	ave, convex, none): Co	oncave	Slope (%):_1				
Subregion (LRR or MLRA): LRRP					Datum: NAD 83				
Soil Map Unit Name: Madison fine									
Are climatic / hydrologic conditions on									
Are Vegetation, Soil, c		-			sent? Yes V No				
Are Vegetation, Soil, c		•		•	·				
SUMMARY OF FINDINGS -	-			-					
Hydrophytic Vogotation Procent?	Yes No_								
Hydrophytic Vegetation Present? Hydric Soil Present?		15 1116	Sampled Area	🗸					
Wetland Hydrology Present?	<del></del> -	within	a Wetland?	Yes	No				
Remarks:									
Cowardin Code:PEM HGM:d	•								
Information listed on this form represents the data collected in 2015. The wetland was revisited on 11/16/2019. Presence of wetland hydrology, hydrophytic vegetation, and hydric soils was confirmed using the USACE EMP Regional Supplement delineation methodology.									
HYDROLOGY									
Wetland Hydrology Indicators:			Secon	dary Indicator	s (minimum of two required)				
Primary Indicators (minimum of one	is required; check all the	at apply)		urface Soil Cra					
Surface Water (A1)									
High Water Table (A2)		gen Sulfide Odor (C1)		rainage Patter					
Saturation (A3)		ed Rhizospheres on Liv		loss Trim Line					
Water Marks (B1)		nce of Reduced Iron (C	• • • —	ry-Season Wa	ater Table (C2)				
Sediment Deposits (B2)	Recer	nt Iron Reduction in Tille		rayfish Burrow					
Drift Deposits (B3)	Thin N	/luck Surface (C7)	S	aturation Visib	Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		(Explain in Remarks)		Stunted or Stressed Plants (D1)					
Iron Deposits (B5)			<u>✔</u> G	eomorphic Po	sition (D2)				
Inundation Visible on Aerial Ima	gery (B7)		SI	Shallow Aquitard (D3)					
Water-Stained Leaves (B9)				Microtopographic Relief (D4)					
Aquatic Fauna (B13)			<u>•</u> F	AC-Neutral Te	est (D5)				
Field Observations:									
Surface Water Present? Yes	No 🖍 Depti	h (inches):							
Water Table Present? Yes	✓ No Depti	h (inches):3							
Saturation Present? Yes	à contract de la cont	h (inches): 0	Wetland Hydrolo	ogy Present?	Yes V No				
(includes capillary fringe)		, ,	, and the second						
Describe Recorded Data (stream ga	uge, monitoring well, ae	erial photos, previous in	spections), if available:						
Remarks:									
Wetland extends beyond ROV	V.								

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-C1

20'	Absolute Dominant Ir		Dominance Test worksheet:	
Tree Stratum (Plot size: 30')	<u>% Cover Species?</u>	<u>Status</u>	Number of Dominant Species	
1			That Are OBL, FACW, or FAC:3	(A)
2			T	
3			Total Number of Dominant Species Across All Strata:  3	(B)
			opedies Across Air Strata.	(D)
4		<del></del>	Percent of Dominant Species	
5			That Are OBL, FACW, or FAC: 100%	(A/B)
6			Drawalawaa Inday waadah aat	
7			Prevalence Index worksheet:	
	0 = Total Cover		Total % Cover of: Multiply by:	
50% of total co	over: 0 20% of total cover:	0	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15'			FACW species x 2 =	
			FAC species x 3 =	
1			FACU species x 4 =	
2				
3			UPL species x 5 =	
4			Column Totals: (A)	(B)
5			Dravalance Index D/A	
6.			Prevalence Index = B/A =	
			Hydrophytic Vegetation Indicators:	
7			1 - Rapid Test for Hydrophytic Vegetation	
8			✓ 2 - Dominance Test is >50%	
9			3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	0 = Total Cover		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
	over:0 20% of total cover:_	0		Jilling
Herb Stratum (Plot size: 5' )			data in Remarks or on a separate sheet)	
1. Juncus effusus	20 🗸 F	ACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
2. Persicaria sagittata		DBL		
3. Arthraxon hispidus			<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
		AC	be present, unless disturbed or problematic.	
4			Definitions of Four Vegetation Strata:	
5				
6			Tree – Woody plants, excluding vines, 3 in. (7.6 cr	n) or
7			more in diameter at breast height (DBH), regardles height.	SS OF
			noight.	
8			Sapling/Shrub - Woody plants, excluding vines, I	ess
9			than 3 in. DBH and greater than or equal to 3.28 ft	t (1
10			m) tall.	
11			Herb – All herbaceous (non-woody) plants, regard	lless
	40 = Total Cover		of size, and woody plants less than 3.28 ft tall.	
50% of total co	over:20 20% of total cover:	8		
Woody Vine Stratum (Plot size: 15'	)		<b>Woody vine</b> – All woody vines greater than 3.28 ft height.	t in
1	<u> </u>		neight.	
2				
3				
4			Hydrophytic	
5			Vegetation	
	= Total Cover		Present? Yes V No No	
50% of total co				
Remarks: (Include photo numbers here or on a	senarate sheet )			
Carex sp with no heads not identified t		domin	nance test	
Carex sp with no neads not identified t	o species and not included in	domin	idilce test.	

Sampling Point: W-C1

Depth	Matrix	%	Redo	x Features	<del>-</del> 1	Loc <sup>2</sup>	T t		Danada	
(inches) 0-12	Color (moist) 10YR 4/1	85	Color (moist) 7.5YR 5/8		Type <sup>1</sup>	M/PL	Texture L		Remarks	
					<u>C</u>	M			C M	
12-20	10YR 3/2	70	10YR 5/8	30			SL		C,M	
		- —— - —— - ——								
Type: C=Co	oncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked S	and Gra	ins.	<sup>2</sup> Location: Pl	L=Pore Lin	ing, M=Matrix.	
lydric Soil I	Indicators:						Indica	tors for P	roblematic Hy	/dric Soils³:
Black Hi Hydroge Stratified 2 cm Mu Depleted Thick Da Sandy M MLRA Sandy R Sandy R Stripped	pipedon (A2)	_RR N,	Dark Surface Polyvalue Be Thin Dark Su Loamy Gleye Depleted Ma Redox Dark Depleted Da Redox Depre Iron-Mangan MLRA 13 Umbric Surfa Piedmont Flo	elow Surface urface (S9) (Ned Matrix (F2) trix (F3) Surface (F6) rk Surface (F6) ressions (F8) ese Masses 6) ace (F13) (Mil podplain Soil	MLRA 1. (F7) (F12) (L LRA 130 s (F19)	47, 148) .RR N, 5, 122) (MLRA 148	148) C P V 0	oast Prairie (MLRA 14 iedmont Fle (MLRA 13 ery Shallov ther (Explain icators of he	oodplain Soils	(F19) (F12) ) getation and present,
Туре:			,							
Depth (inc	ches):						Hydric Soil	Present?	Yes	No



Photograph Direction North

Date: <u>04/01/2015</u>

Comments: 2015 wetland delineation.



Photograph Direction WNW

Date: 11/16/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP				City	<sub>/County:</sub> Pittsylvan	ia	Sampling Date: 04/01/2015			
Applicant/Owner: MVP							Sampling Point: W-C1 UPL			
Investigator(s): L.Harloe, K	Lamontag	ne, A. Fl	ake, E.	Stror Sec			<u> </u>			
Landform (hillslope, terrace, e							Slope (%): 3			
Subregion (LRR or MLRA): L							Datum: NAD 83			
Soil Map Unit Name: Madis										
Are climatic / hydrologic condi					_					
· · · · · · · · · · · · · · · · · · ·				-			" present? Yes No			
Are Vegetation, Soil _										
_	-					ded, explain any ansv	ts, important features, etc.			
JOHNNAKT OF THE			-			ations, transec	ts, important reatures, etc.			
Hydrophytic Vegetation Pres		Yes			Is the Sampled A	rea				
Hydric Soil Present?		Yes		<u> </u>	within a Wetland	? Yes	No			
Wetland Hydrology Present? Remarks:	?	Yes	No							
HADBOI OCA										
HYDROLOGY Wetland Hydrology Indicat	tors:					Socondary Indi	icators (minimum of two required)			
Primary Indicators (minimum		uirod: choc	sk all that	t apply)		Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)				
Surface Water (A1)	rorone is req			quatic Plants	· (D14)		/egetated Concave Surface (B8)			
High Water Table (A2)				en Sulfide O			Drainage Patterns (B10)			
Saturation (A3)					eres on Living Roots (	_	Lines (B16)			
Water Marks (B1)				ce of Reduc		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	ļ				tion in Tilled Soils (C6					
Drift Deposits (B3)			Thin Mu	uck Surface	(C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)			Other (	Explain in Re	emarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)						Geomorphic Position (D2)				
Inundation Visible on Ae		B7)				Shallow Aquitard (D3)				
Water-Stained Leaves (	B9)					Microtopographic Relief (D4)				
Aquatic Fauna (B13)						FAC-Neuti	ral Test (D5)			
Field Observations: Surface Water Present?	Voo	No	Donth	(inches):						
Water Table Present?				(inches):						
Saturation Present?				(inches):		and Hydrology Pres	ent? Yes No_ 🗸			
(includes capillary fringe)							ent: resNo			
Describe Recorded Data (str	ream gauge, r	monitoring	well, aeri	ial photos, p	revious inspections), i	if available:				
Remarks:										

Sampling	Point: W-C1 UPL	
Januaria	1 OIIIL ** • • • -	

201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1		-		That Are OBL, FACW, or FAC:1 (A)
2				Total Number of Dominant
3		-		Species Across All Strata:1 (B)
4				Descent of Deminent Species
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6				- , ,
7				Prevalence Index worksheet:
	0	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover:0	20% of	total cover:	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1				FAC species5 x 3 =15
2				FACU species x 4 =
3				UPL species x 5 =
4		-		Column Totals: (A) (B)
5		-	· <del></del>	Prevalence Index = B/A =3.00
6				Hydrophytic Vegetation Indicators:
7		-		1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9		-		✓ 3 - Prevalence Index is ≤3.0 <sup>1</sup>
0		= Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover:	. 0	data in Remarks or on a separate sheet)
TIEID Stratuiii (Flot Size.	_			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Verbesina alternifolia	5		F <u>AC</u>	
2. Poa sp.*	35		ND	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3		-		be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Sommon on Four Pogotanon on and
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11		-		
	40	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 20		total cover:	_	of size, and woody plants less than 5.20 it tall.
Woody Vine Stratum (Plot size: 15' )	20 /0 01	total cover.		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
/voody vine Stratum (Flot Size)				height.
1				
2		-		
3		-		
4	·			Hydrophytic
5				Vegetation No. 1
•		= Total Cov	_	Present? Yes No
50% of total cover: 0		total cover:		
Remarks: (Include photo numbers here or on a separate s				
*Poa not identified to the species therefore it wa	is not use	ed to calc	ulate dor	minance or coverage.
ND- Not determined				

Sampling Point: W-C1 UPL

Profile Desc	ription: (Describe	o the dept	h needed to docun	nent the i	ndicator	or confirm	the absence	of indicator	s.)		
Depth	Matrix		Redox	x Features	S						
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>		Remarks	<b>i</b>	
0-7	7.5YR 4/4	98	7.5YR 6/8	_ 2	С	М	L				[
7-14	5YR 4/6	100					SiL				
	-										
			_		-						
	-										
			_								
<del></del>								-			
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: P				
Hydric Soil										lydric Soils <sup>3</sup>	:
Histosol			Dark Surface					cm Muck (A	, .	•	
	oipedon (A2)		Polyvalue Be				<b>148)</b> C	oast Prairie I		5)	
Black Hi			Thin Dark Su	, ,	•	47, 148)		(MLRA 147			
	n Sulfide (A4)		Loamy Gleye		F2)		P	iedmont Floo		s (F19)	
	d Layers (A5)		Depleted Mat		\			(MLRA 136		(== )	
	ick (A10) <b>(LRR N)</b>	(044)	Redox Dark S					ery Shallow			
	d Below Dark Surface ark Surface (A12)	e (ATT)	Depleted Dar Redox Depre					ther (Explain	ı ın Kemark	S)	
	fik Sulface (A12) Jucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangane			I DD N					
	147, 148)	.NN IN,	MLRA 13		65 (F12) <b>(</b>	LKK N,					
	Gleyed Matrix (S4)		Umbric Surfa	-	MIRA 13	6. 122)	3Ind	icators of hyd	drophytic ve	egetation and	1
	Redox (S5)		Piedmont Flo					tland hydrolo			'
	Matrix (S6)		Red Parent M					less disturbe			
	Layer (if observed):						<u>í</u>		<u> </u>		
Type: ro											
	ches): 14		<del></del>				Hydric Soil	Present?	Yes	No 🗸	
Remarks:			_				11,4				
Shovel refu	ısal at 14"										
0110 001 1010	Joan at 11.										

Project/Site: MVP			City/C	ounty: Pittsylvania		Sampling Date: 04/02/2015
Applicant/Owner: MVP				,		Sampling Point: W-H5
Investigator(s): A.Stott, A. C	àrech, H. F	Heist	Section	on, Township, Range: N		_
• ,,			<del></del>			Slope (%): 1-2%
Subregion (LRR or MLRA): L				Long: -79		Datum: NAD 83
Soil Map Unit Name: Madisc				_		
Are climatic / hydrologic condit						
Are Vegetation, Soil	, or Hyd	Irology	_significantly disturb	oed? Are "Normal	Circumstances" p	resent? Yes No
Are Vegetation, Soil	, or Hyd	Irology	_naturally problema	itic? (If needed, e	explain any answe	rs in Remarks.)
SUMMARY OF FINDIN	GS – Atta	ch site ma	p showing sam	pling point location	ons, transects	, important features, etc.
Lludraphytic Variation Drag		Yes 🗸	No			
Hydrophytic Vegetation Present?		Yes 🗸	No No	Is the Sampled Area		
Wetland Hydrology Present?		Yes V	No	within a Wetland?	Yes	No
Remarks:			·			
Cowardin Code:PEM H	GM: depre	essional W	T: RPWWD			
Information listed on this of wetland hydrology, hy Supplement delineation	/drophytic	vegetation	data collected in , and hydric soils	n 2015. The wetland s was confirmed us	d was revisited ing the USACE	on 11/16/2019. Presence E EMP Regional
HYDROLOGY						
Wetland Hydrology Indicate	ors:				Secondary Indica	tors (minimum of two required)
Primary Indicators (minimum	of one is req	uired; check	all that apply)		Surface Soil	Cracks (B6)
✓ Surface Water (A1)		T	rue Aquatic Plants (I	B14)	Sparsely Veg	getated Concave Surface (B8)
High Water Table (A2)		F	lydrogen Sulfide Odd	or (C1)	✓ Drainage Pat	tterns (B10)
Saturation (A3)		c	xidized Rhizosphere	es on Living Roots (C3)	Moss Trim Li	nes (B16)
Water Marks (B1)		P	resence of Reduced	Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)		R	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	rows (C8)
Drift Deposits (B3)		T	hin Muck Surface (C	37)	Saturation Vi	sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		c	Other (Explain in Ren	narks)		tressed Plants (D1)
Iron Deposits (B5)					Geomorphic	Position (D2)
Inundation Visible on Ae	rial Imagery (	B7)			Shallow Aqui	tard (D3)
Water-Stained Leaves (E	39)					phic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutral	Test (D5)
Field Observations:	•		4	Oll		
Surface Water Present?			Dopur (mones)	<u>2"</u>		
Water Table Present?			Deptif (inches)	<del></del>		_
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland H	lydrology Presen	t? Yes No
Describe Recorded Data (stre	eam gauge, r	monitoring we	ell, aerial photos, pre	vious inspections), if ava	ilable:	
Devente						
Remarks: Areas within wetland ha	ve nonded	l water un t	to a 12 inches de	en .		
7 TOGO WITHIN WORLD NA	ve portaca	water up	10 a 12 mones ac	оор		
Area recently clear cut.	Clear cut t	rees are re	ed maple, and Ar	nerican sycamore		
, , , , , , , , , , , , , , , , , , , ,						

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-H5

201	Absolute	Dominan	t Indicator	Dominance Test worksheet:		
<u>Tree Stratum</u> (Plot size:)	% Cover	Species'	Status	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	2	(A)
				, ,		( )
2				Total Number of Dominant	0	
3				Species Across All Strata:	3	(B)
4				Description of Description		
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	67%	(A/B)
				That Ale OBE, FACW, of FAC.		(A/D)
6				Prevalence Index worksheet:		
7	_	. —		Total % Cover of:	Multiply by:	
		= Total Co				
50% of total cover:0	20% of	total cove	r: <u> </u>	OBL species x	1 =	_
Sapling/Shrub Stratum (Plot size: 15')				FACW species x	2 =	_
1. Lindera benzoin	5	/	FAC	FAC species x	3 =	
··-	- —	· <u> </u>	1 10			
2		· -		FACU species x		
3		·		UPL species x	5 =	_
4				Column Totals: (A	i)	_ (B)
5				Prevalence Index = B/A =		_
6				Hydrophytic Vegetation Indica	tors:	
7						
8				1 - Rapid Test for Hydrophy	-	
				✓ 2 - Dominance Test is >50%	, D	
9	_			3 - Prevalence Index is ≤3.0	1	
		= Total Co		4 - Morphological Adaptation	ns¹ (Provide sun	norting
50% of total cover: 2.5	20% of	total cove	r: <u> </u>			porting
Herb Stratum (Plot size: 5')				data in Remarks or on a		
Symplocarnus footidus	20	<b>✓</b>	OBL	Problematic Hydrophytic Ve	getation¹ (Explai	in)
Dadanhullum naltatum	10	~				
<u> </u>		· <del></del>	F <u>ACU</u>	<sup>1</sup> Indicators of hydric soil and wet	land hydrology r	nust
3				be present, unless disturbed or p		iiuot
4				Definitions of Four Vegetation		
				Definitions of Four Vegetation	Strata:	
5				Tree – Woody plants, excluding	vines. 3 in. (7.6	cm) or
6				more in diameter at breast heigh	it (DBH), regardl	ess of
7				height.	, ,, ,	
8						
				Sapling/Shrub – Woody plants,		
				than 3 in. DBH and greater than m) tall.	or equal to 3.28	π (1
10		· <del></del>		III) tall.		
11				Herb – All herbaceous (non-woo	ody) plants, rega	rdless
	30	= Total Co	ver	of size, and woody plants less th		
50% of total cover: 15		total cove				
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines of	reater than 3.28	ft in
				,		
				height.		
1				,		
2				,		
2				,		
2				,	,	
2			- — - — - —	height.  Hydrophytic	,	
2			  	height.  Hydrophytic Vegetation		
2				height.  Hydrophytic		
2			_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		
2	0 20% of	= Total Co	_	height.  Hydrophytic Vegetation		

SOIL Sampling Point: W-H5

Profile Desc	ription: (Describe t	o the dep	th needed to docun	nent the	indicator	or confirm	n the absence	e of indicators.)
Depth	Matrix			x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-4"	10YR 3/2	90	5YR 3/4	10	C	М	SL	
4-20"	10YR 4/2	85	10YR 5/8	15	С	М	S	
								· <del>-</del>
								·
				-				
							-	
				-	· -		-	· -
				-				
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	d Sand G	rains.		PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indic	eators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	2 cm Muck (A10) (MLRA 147)
Histic Ep	pipedon (A2)		Polyvalue Be	low Surfa	ice (S8) <b>(I</b>	MLRA 147	, 148) (	Coast Prairie Redox (A16)
Black Hi			Thin Dark Su			147, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		(F2)		F	Piedmont Floodplain Soils (F19)
	l Layers (A5)		Depleted Mat	. ,				(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark S	•				Very Shallow Dark Surface (TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				(	Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		es (F12)	(LRR N,		
	147, 148)		MLRA 13	-			3,	
	ileyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	/laterial (F	-21) <b>(ML</b> F	RA 127, 14	<b>7)</b> ur	nless disturbed or problematic.
	_ayer (if observed):							
Type:			<del></del>					
Depth (ind	ches):		<u></u>				Hydric Soi	I Present? Yes No
Remarks:								



Photograph Direction SW

Date: <u>04/02/20</u>15

Comments: 2015 wetland delineation.



Photograph Direction SW

Date: 11/16/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/0	County: Pittsylvania		Sampling Date: 04/02/2015
Applicant/Owner: MVP						Sampling Point: W-H5 UPL
Investigator(s): A.Stott, A. Grech, H. H	eist					
Landform (hillslope, terrace, etc.): Valley b						Slope (%): 1-2%
Subregion (LRR or MLRA): LRRP						Datum: NAD 83
Soil Map Unit Name: Madison fine sand	ly loam, 1	15 to 2	5 percent			
Are climatic / hydrologic conditions on the sit				_		
Are Vegetation , Soil , or Hydr			-			
Are Vegetation, Soil, or Hydr	••		•			·
SUMMARY OF FINDINGS – Attac					explain any answe	
SOMMANT OF FINDINGS - Attac	ii site iii	ap siii	owing sai		ons, transects	s, important reatures, etc.
	es			Is the Sampled Area		
	'es		<u>/</u>	within a Wetland?	Yes	No
Wetland Hydrology Present? Y Remarks:	es	_ No	<u></u>			
Upland						
HADBOLOCA						
HYDROLOGY  Wetland Hydrology Indicators:					Socondary Indica	ators (minimum of two required)
, ,,	irod: chock	all that	annly)		Surface Soil	
Primary Indicators (minimum of one is required			uatic Plants	(P14)		getated Concave Surface (B8)
High Water Table (A2)			en Sulfide O		Sparsely ve	
Saturation (A3)				res on Living Roots (C3)	-	
Water Marks (B1)			ce of Reduce			Water Table (C2)
Sediment Deposits (B2)				on in Tilled Soils (C6)	Crayfish Bur	
Drift Deposits (B3)			ıck Surface (		-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)			Explain in Re			Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (E	37)				Shallow Aqu	iitard (D3)
Water-Stained Leaves (B9)					Microtopogra	aphic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutra	l Test (D5)
Field Observations:						
			(inches):			
			(inches):			
Saturation Present? Yes (includes capillary fringe)	No	Depth	(inches):	Wetland	Hydrology Presei	nt? Yes No
Describe Recorded Data (stream gauge, m	onitoring w	ell, aeri	al photos, pr	evious inspections), if av	ailable:	
Remarks:						
Remarks.						
Area recently clear cut.						

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: \_\_

Herb Stratum (Plot size: \_\_\_

1. Podophyllum peltatum

2. Poa sp. \_\_\_\_\_\_

\_\_\_)

% Cover Species? Status

= Total Cover

0 = Total Cover

0 = Total Cover

50% of total cover: 0 20% of total cover: 0

50% of total cover: 0 20% of total cover: 0

50% of total cover: \_\_\_\_5 \_\_\_ 20% of total cover: \_\_\_\_2

50% of total cover: 0 20% of total cover: 0

	Sampling Po	int: W-H5 UP	<u>L</u>
	Dominance Test worksheet:		
-	Number of Dominant Species That Are OBL, FACW, or FAC:	0	(A)
-	Total Number of Dominant Species Across All Strata:	1*	(B)
-	Percent of Dominant Species That Are OBL, FACW, or FAC:	0%	(A/B)
-	Prevalence Index worksheet:		
-	Total % Cover of:	Multiply by:	
		1 =	
-	FACW species x		
		3 =	
-		4 =	
-	· ———	5 =	
-	Column Totals: (A		_
-	Column Totals (A		_ (D)
-	Prevalence Index = B/A =		_
-	Hydrophytic Vegetation Indica	tors:	
-	1 - Rapid Test for Hydrophy	tic Vegetation	
-	2 - Dominance Test is >50%	D	
-	3 - Prevalence Index is ≤3.0	1	
	4 - Morphological Adaptation	ns¹ (Provide sup	porting
-	data in Remarks or on a	separate sheet)	
-	Problematic Hydrophytic Ve	getation¹ (Explai	in)
-	<sup>1</sup> Indicators of hydric soil and wet be present, unless disturbed or p		nust
-	Definitions of Four Vegetation	Strata:	
	<b>Tree</b> – Woody plants, excluding more in diameter at breast heigh height.		
	<b>Sapling/Shrub</b> – Woody plants, than 3 in. DBH and greater than m) tall.		
-	<b>Herb</b> – All herbaceous (non-wood of size, and woody plants less the		rdless
-	Woody vine – All woody vines gheight.	reater than 3.28	ft in
-			
-			
-			
-	Hydrophytic Vegetation Present? Yes	No <u> </u>	

Remarks: (Include photo numbers here or on a separate sheet.)

Woody Vine Stratum (Plot size: \_\_\_\_15' \_\_\_\_)

Disturbed area

ND- Not determined

\*Vegetation not ID'd down to species level not included in dominance test.

Sampling Point: W-H5 UPL

Depth         Matrix         Redox Features           (inches)         Color (moist)         %         Type¹         Loc²         Texture         Remarks	
(inches) Color (moist) 9/ Color (moist) 9/ Typo <sup>1</sup> Loc <sup>2</sup> Toyturo Pomarks	
0-4 7.5YR 4/4 100 S	
4-18 7.5YR 5/6 100 S	
·	
1 <del>-</del>	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Hydric Soil Indicators: <sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric	Soile <sup>3</sup> :
	. 30115 .
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) (MLRA 147)	
Histic Epipedon (A2)	
Black Histic (A3) Thin Dark Surface (S9) (MLRA 147, 148) (MLRA 147, 148) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain Soils (F19	מ
Stratified Layers (A5) Depleted Matrix (F3) MLRA 136, 147)	5)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF	-12)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks)	,
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N,	
MLRA 147, 148) MLRA 136)	
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) <sup>3</sup> Indicators of hydrophytic vegetati	tion and
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be prese	ent,
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.	
Restrictive Layer (if observed):	
Type:	
Depth (inches): N	lo <u>    /                                </u>
Remarks:	

Project/Site: MVP		City/C	ounty: Pittsylvania		Sampling Date: 03/31/2015
Applicant/Owner: MVP					Sampling Point: W-B3
Investigator(s): C. Ansari, J	. Rodriguez, M.	Whitten Section			
Landform (hillslope, terrace, et					Slope (%): 0
Subregion (LRR or MLRA): L					Datum: NAD 83
Soil Map Unit Name: Madisc					
Are climatic / hydrologic condit		· · · · · · · · · · · · · · · · · · ·			
					resent? Yes No
Are Vegetation, Soil				olain any answer	
SUMMARY OF FINDING	GS – Attach sit	te map showing sam	pling point location	s, transects.	, important features, etc.
Hydrophytic Vegetation Prese	ent? Yes	✓ No			
Hydric Soil Present?	Yes	✓ No	Is the Sampled Area within a Wetland?	Yes V	No
Wetland Hydrology Present?	Yes	<b>✓</b> No	Within a Wettana:	163	
Remarks: Cowardin: PEM HGM: I	Depressional V	/T:RPWWN			
Information listed on this	s form represent drophytic veget	ts the data collected in	n 2015. The wetland v s was was unable to b	was revisited be confirmed	on 11/16/2019. Presence because the wetland was
HYDROLOGY					
Wetland Hydrology Indicate	ors:		<u>S</u>	econdary Indicat	tors (minimum of two required)
Primary Indicators (minimum	of one is required;			Surface Soil (	` '
Surface Water (A1)		True Aquatic Plants (I			getated Concave Surface (B8)
High Water Table (A2)		✓ Hydrogen Sulfide Odd		Drainage Pat	` '
Saturation (A3)		Oxidized Rhizosphere	- · · -	Moss Trim Lii	` ,
Water Marks (B1)		Presence of Reduced	· · ·	_ ′	Water Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burn	` '
Drift Deposits (B3)		Thin Muck Surface (C	· —		sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren		Stunted or St Geomorphic I	ressed Plants (D1)
Iron Deposits (B5) Inundation Visible on Ae	rial Imagary (P7)		<u>-</u>		
Water-Stained Leaves (E			_	_ Shallow Aquit	phic Relief (D4)
Aquatic Fauna (B13)	19)			FAC-Neutral	
Field Observations:					1031 (103)
Surface Water Present?	Yes V No	Depth (inches):	4		
Water Table Present?		Depth (inches):	0		
Saturation Present?		Depth (inches):	0 Wetland Hye	drology Presen	t? Yes <u>/</u> No
(includes capillary fringe)  Describe Recorded Data (stre	eam gauge, monitor	ring well, aerial photos, pre	vious inspections), if availa	ible:	
			. ,		
Remarks:					
2015 note: The feature is adjacent to feature was not conside Frog eggs in standing w	to an S-G4 alon red a forested c ater.	g a toe slope. The we or shrub wetland.	tland had less than 3	0% canopy c	over. Therefore, this

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-B3

Tree Stratum (Plot size: 30')	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species		
1				That Are OBL, FACW, or FAC:	4	(A)
2				Total Nevel and Characterist		
3				Total Number of Dominant Species Across All Strata:	4	(B)
				Species Acioss Ali Strata.	<u>.</u>	(D)
4				Percent of Dominant Species		
5		· -		That Are OBL, FACW, or FAC:		(A/B)
6						
7				Prevalence Index worksheet:		
		= Total Co	uor.	Total % Cover of:	Multiply by:	
50% of total cover: 0				OBL species x 1	=	
	20% 01	lotal cover		FACW species x 2		
Sapling/Shrub Stratum (Plot size: 15')	4-					
1. Carpinus caroliniana	15		FAC	FAC species x 3		
2				FACU species x 4	· =	_
3				UPL species x 5	j =	
				Column Totals: (A)		
4				Coldinii Totalo: (71)		_ (5)
5				Prevalence Index = B/A = _		
6						_
7				Hydrophytic Vegetation Indicate		
				1 - Rapid Test for Hydrophytic	c Vegetation	
8				✓ 2 - Dominance Test is >50%		
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	15	= Total Co	ver	4 - Morphological Adaptations	c¹ (Provido cup	norting
50% of total cover:0	20% of	total cover	: <u> </u>			porting
Herb Stratum (Plot size: 5')				data in Remarks or on a se		
1. Carex Iurida	5	<b>/</b>	OBL	Problematic Hydrophytic Vege	etation1 (Explai	in)
	5	<u> </u>				
2. Scirpus atrovirens		· <del></del>	<u>OBL</u>	<sup>1</sup> Indicators of hydric soil and wetla	and hydrology r	nuet
3. Poa trivialis	10		FACW_	be present, unless disturbed or pre-		iiust
4				Definitions of Four Vegetation S		
				Definitions of Four Vegetation S	otrata.	
5				Tree - Woody plants, excluding vi	ines, 3 in. (7.6	cm) or
6				more in diameter at breast height		
7				height.		
8						
9				Sapling/Shrub – Woody plants, e		
				than 3 in. DBH and greater than o m) tall.	i equal to 3.20	11 (1
10	-	· <del></del>		m, tan.		
11		· -		Herb - All herbaceous (non-wood	ly) plants, rega	rdless
	20	= Total Co	ver	of size, and woody plants less tha		
50% of total cover: 0	20% of	total cover	: <u> </u>			
Woody Vine Stratum (Plot size: 15' )				Woody vine – All woody vines gre	eater than 3.28	itt in
				height.		
1						
2						
3						
4						
5				Hydrophytic Vegetation		
	^	T		Present? Yes	No	
		= Total Co	_	100		
50% of total cover:0	20% of	total cover	:0			
Remarks: (Include photo numbers here or on a separate s	heet.)					

Sampling Point: W-B3

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the ir	ndicator	or confirm	the absen	ce of indicators.)
Depth	Matrix		Redo	k Features				
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-16"	10YR 3/1	100					LS	
·							-	
								<del>-</del>
	-							
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil	Indicators:						Ind	licators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface					2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be		. , .		148)	Coast Prairie Redox (A16)
Black Hi	, ,		Thin Dark Su			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye		<del>-</del> 2)			Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat					(MLRA 136, 147)
	ick (A10) (LRR N)	(* ( * )	Redox Dark S					Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre			DD N		
	iucky Mineral (ST) (L \ 147, 148)	KK N,	Iron-Mangan		S (F12) (I	LKK N,		
	Gleyed Matrix (S4)		Umbric Surfa		MI RA 13	6 122)	3	Indicators of hydrophytic vegetation and
	ledox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N					unless disturbed or problematic.
	_ayer (if observed):				<b>(</b>	,	<del>,</del>	anico dictarza en prezioniane.
Type:	, , , , , , , , , , , , , , , , , , , ,							
	ches):		<del>_</del>				Hydric S	oil Present? Yes No
	Jiles)		<del>_</del>				Tiyunc 3	Oli Fresent: Fes NO
Remarks:								

SOIL



Photograph Direction NW

Date: 03/31/2015

Comments: 2015 wetland delineation.



Photograph Direction NW

Date: 11/16/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Cou	<sub>ınty:</sub> Pittsylvania		Sampling Date: 03/31/2015
Applicant/Owner: MVP		,		Sampling Point: W-B3 UPL
Investigator(s): C. Ansari, J. Rodriguez, M.				
Landform (hillslope, terrace, etc.): Toe slope				Slope (%): 5
Subregion (LRR or MLRA): LRRP	. 36 0165/11	70 /0	2/63	Slope (%) Datum: NAD 83
Soil Map Unit Name: Madison fine sandy loa				
Are climatic / hydrologic conditions on the site typic	•			
Are Vegetation, Soil, or Hydrology	significantly disturbe	d? Are "Normal Ci	rcumstances" p	resent? Yes No
Are Vegetation, Soil, or Hydrology	naturally problemation	? (If needed, exp	lain any answer	s in Remarks.)
SUMMARY OF FINDINGS – Attach sit	e map showing samp	ling point locations	s, transects,	, important features, etc.
Lhadranhatia Vanatatian Bassanta	V No			
	No 🗸	s the Sampled Area		•
	No v	vithin a Wetland?	Yes	No
Remarks:				
Upland				
Opiana				
HYDROLOGY		0.	and the Park	(
Wetland Hydrology Indicators:	de a de a III de a de a made A			tors (minimum of two required)
Primary Indicators (minimum of one is required; o			_ Surface Soil (	, ,
Surface Water (A1)	True Aquatic Plants (B1			etated Concave Surface (B8)
High Water Table (A2)	<ul><li>Hydrogen Sulfide Odor</li><li>Oxidized Rhizospheres</li></ul>		_ Drainage Pat	
Saturation (A3) Water Marks (B1)	Oxidized Rhizospheres Presence of Reduced Ir	-	_ Moss Trim Li	Nater Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction i		_ Dry-Season v _ Crayfish Burr	
Drift Deposits (B3)	Thin Muck Surface (C7)			sible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rema			ressed Plants (D1)
Iron Deposits (B5)			Geomorphic I	
Inundation Visible on Aerial Imagery (B7)		_	_ _ Shallow Aquit	
Water-Stained Leaves (B9)				phic Relief (D4)
Aquatic Fauna (B13)		_	_ FAC-Neutral	Test (D5)
Field Observations:				
Surface Water Present? Yes No	Depth (inches):			
Water Table Present? Yes No _	Depth (inches):			
Saturation Present? Yes No _	✓ Depth (inches):	Wetland Hyd	lrology Presen	t? Yes No
(includes capillary fringe)	ing well periol photos provi	us inapactions) if availab	ala.	
Describe Recorded Data (stream gauge, monitor	ing well, aerial priotos, previo	ous mspections), ii avaliat	oie.	
Remarks:				

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampli	ing Point: W-B3 UPL	
st works	heet:	

201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	Status	Number of Dominant Species
1. Liriodendron tulipifera	30		FACU_	That Are OBL, FACW, or FAC:3 (A)
2. Acer rubrum	20		FAC	Total New horse ( Decrine of
3				Total Number of Dominant Species Across All Strata:  5 (B)
4				Species 7676567 in Strata.
				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:60 (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 25	20% of	total cover:	10	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =
1. Smilax rotundifolia	30	<b>~</b>	FAC	FAC species x 3 =
2. Carpinus caroliniana	20		FAC	FACU species x 4 =
3. Fagus grandifolia	30	<u> </u>		UPL species x 5 =
			FACU_	
4				Column Totals: (A) (B)
5		-		Provolence Index - P/A -
6				Prevalence Index = B/A =
		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 40	20% of	total cover:	16	
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				John Marie Co. Com. Cogo amon Circum.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				Herb – All herbaceous (non-woody) plants, regardless
	0 .	= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 0		total cover:	_	of size, and wesdy plants less than 6.20 it tall.
4 = 1	20 /0 01	total cover.		Woody vine – All woody vines greater than 3.28 ft in
voody vine Stratum (1 lot size:)				height.
1				
2				
3				
4				
5.				Hydrophytic
J	0			Vegetation Present? Yes ✓ No
0		= Total Cov	_	1103cm: 103 100 100
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-B3 UPL

Depth	Matrix	<u></u> %	Redox Features	oc² Tex	***	Daw - II	
nches) 0-12"	Color (moist)		Color (moist) % Type <sup>1</sup> L		ture CL	Remarks	
0-12	10YR 4/6	100			<u> </u>		
		- <del></del>					
		<del>-</del>					
					<del></del>		
		ladar DM D		21	Car Di Baratia		
	ncentration, D=Dep	oletion, RM=R	educed Matrix, MS=Masked Sand Grains	s. Loca	tion: PL=Pore Lin Indicators for P	ing, M=Matrix.	udria Caila <sup>3</sup> .
			D 1 0 ( (07)				
_ Histosol			Dark Surface (S7)	A 447 440\		(A10) <b>(MLRA</b> 1	•
	ipedon (A2)		Polyvalue Below Surface (S8) (MLR		Coast Prairie		1
_ Black His			<ul><li>Thin Dark Surface (S9) (MLRA 147,</li><li>Loamy Gleyed Matrix (F2)</li></ul>	148)	(MLRA 14		(540)
	n Sulfide (A4) Layers (A5)		Loamy Gleyed Matrix (F2) Depleted Matrix (F3)		Pleamont FI	oodplain Soils	(F19)
	ck (A10) <b>(LRR N)</b>		Redox Dark Surface (F6)			w Dark Surface	o (TE12)
	Below Dark Surfac	-e (Δ11)	Depleted Dark Surface (F7)			ain in Remarks	
	rk Surface (A12)	(/(II)	Redox Depressions (F8)		Other (Explo	iii iii reemane	• /
	ucky Mineral (S1) (I	LRR N.	Iron-Manganese Masses (F12) (LRF	R N.			
	. 147, 148)		MLRA 136)	,			
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 1	22)	<sup>3</sup> Indicators of h	ydrophytic ve	getation and
	edox (S5)		Piedmont Floodplain Soils (F19) (MI			ology must be	-
	Matrix (S6)		Red Parent Material (F21) (MLRA 1			ed or problem	
	ayer (if observed):	:				·	
Type:							
Depth (inc	thes):		<del>_</del>	Hvd	ric Soil Present?	Yes	No 🗸
emarks:			<u> </u>	1.7			
emarks:							

Project/Site: MVP		City/C	ounty: Pittsylvania		Sampling Date: 07/16/2015		
Applicant/Owner: MVP				State: VA	Sampling Point: W-CC2-PEM		
Investigator(s): JH, LM, LS, CL							
Landform (hillslope, terrace, etc.):					Slope (%): 0		
Subregion (LRR or MLRA): LRRP							
Soil Map Unit Name: Madison fin							
Are climatic / hydrologic conditions o							
Are Vegetation, Soil,		•					
Are Vegetation, Soil, SUMMARY OF FINDINGS -				explain any answe			
			ipinig point location	J113, trai1300t3	, important reatares, etc.		
Hydrophytic Vegetation Present?		No	Is the Sampled Area				
Hydric Soil Present?		No	within a Wetland?	Yes	No		
Wetland Hydrology Present?	Yes	No					
Remarks: Cowardin Code: PEM HGM: Rive	erine WT: RPWW	/D					
Information listed on this form rep hydrophytic vegetation, and hydric was previously confirmed by the Lanticipated that wetland criteria with the confirmation of the	resents data colle c soils was confir JSACE during 20 ill persist in the a	ected in 2015. The womed using the USAC 16 field reviews. Add dditionally mapped w	etland was revisited on E EMP Regional Supp itional areas of wetland etland area after const	11/16/2019. Prestlement delineation were identified cruction completion	sence of wetland hydrology, n methodology. W-CC2-PEM during the 2019 revisit. It can be n.		
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one	e is required; chec	k all that apply)		Surface Soil	` '		
Surface Water (A1)	·	True Aquatic Plants (	•	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Od	` '	Drainage Pa	` ,		
Saturation (A3)	<del></del>	•	• ,	. ,			
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reductio		Crayfish Bur	` '		
Drift Deposits (B3)		Thin Muck Surface (C	,		isible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	_	Other (Explain in Rer	narks)		tressed Plants (D1)		
Iron Deposits (B5)	ogon (DZ)			Geomorphic	` '		
Inundation Visible on Aerial Im Water-Stained Leaves (B9)	agery (b7)			Shallow Aqui	aphic Relief (D4)		
Aquatic Fauna (B13)				FAC-Neutral	. ,		
Field Observations:				- I AC-Neullai	Test (D3)		
	No.	Depth (inches):	).5				
		Depth (inches):					
		Depth (inches):		Hydrology Preser	nt? Yes 🗸 No		
(includes capillary fringe)	S NU <u>*</u>	_ Deptil (iliches)	vveiland i	nyarology Freser	it? Tes NO		
Describe Recorded Data (stream g	auge, monitoring	well, aerial photos, pre	vious inspections), if ava	ailable:			
Domostro							
Remarks:							

Sampling Point: W-CC2-PEM

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Fraxinus americana	20	<b>✓</b>	FACU	That Are OBL, FACW, or FAC: 2 (A)
2.				(/,
				Total Number of Dominant Species Across All Strata:  3 (B)
3				Species Across All Strata:3 (B)
4			<del></del>	Percent of Dominant Species
5			·	That Are OBL, FACW, or FAC: 67% (A/B)
6				
7				Prevalence Index worksheet:
	20	= Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover:10	20% of	total cover	: 4	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15')	<u></u>			FACW species x 2 =
				FAC species x 3 =
1			· ——	FACU species x 4 =
2				UPL species x 5 =
3				
4				Column Totals: (A) (B)
5				Dravalance Index D/A
6				Prevalence Index = B/A =
			-	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8			· ——	✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	0	= Total Cov	/er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover	:0	
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)
1. Leersia oryzoides	40	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Juncus effusus	35			
i	8		F <u>ACW</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Microstegium vimineum	8		F <u>AC</u>	be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				<b>3</b>
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7			· ——	height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	83	= Total Cov	/er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 41.5				, , , , , , , , , , , , , , , , , , , ,
Woody Vine Stratum (Plot size: 15' )		10101 00101		Woody vine – All woody vines greater than 3.28 ft in
				height.
1			<del></del>	
2		-		
3				
4				Thudaanhudia
5				Hydrophytic Vegetation
	_	= Total Cov	/Or	Present? Yes _ V No
50% of total cover: 0		total cover	_	
		total cover	·	
Remarks: (Include photo numbers here or on a separate si	neet.)			

Sampling Point: W-CC2-PEM

SOIL

Depth	Matrix			x Features	_ 1		_			
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	-	Remarks	
0-12	10YR 5/1	98	10YR 4/6	2	С	M/PL	SCL			
						· ——		-		
						· ——		-		
						· ——				
[vne: C=Co	oncentration, D=Depl	etion RM=I	Reduced Matrix MS	S=Masked S	Sand Gr	ains	<sup>2</sup> Location: F	I =Pore Lini	ng, M=Matrix.	
	ndicators:	011011, 11111-1	toddood WidthX, Wie	5-Maskea (	oana Oi	uiiio.			roblematic Hy	dric Soils <sup>3</sup> :
_ Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	pipedon (A2)		Polyvalue Be	, ,	e (S8) <b>(I</b>	/ILRA 147.		,	Redox (A16)	,
Black Hi			Thin Dark Su		. , .			(MLRA 14		
	n Sulfide (A4)		Loamy Gleye	. , ,	•	. ,	F	•	oodplain Soils (	(F19)
_ Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 13	6, 147)	
	ck (A10) (LRR N)		Redox Dark	•	,				/ Dark Surface	
	Below Dark Surface	e (A11)	Depleted Dar				_ (	Other (Expla	in in Remarks)	
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		s (F12) (	LRR N,				
	(147, 148)		MLRA 13	•	N D A 44	)C 400\	31	!:t <b>f</b>  -		
	leyed Matrix (S4) edox (S5)		Umbric Surfa Piedmont Flo						ydrophytic veg llogy must be p	
	Matrix (S6)		Red Parent N						ed or problema	
	_ayer (if observed):		Ned raientii	naterial (i Z	i) (IVILI	A 121, 141	) ui	iiess distuib	ed of problems	atio.
Type:	-uyo: ( oboo: vou):									
	shoo):		<del></del>				Hydric Soi	Drocont2	Yes_	No
	ches):						Hydric 30i	rieseiitr	162	NO
emarks:										

# **Wetland Photograph Page**

#### Wetland ID W-CC2-PEN



Photograph Direction West

Date: 07/16/2015

Comments: 2015 wetland delineation.



Photograph Direction West

Date: 11/16/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/C	County: Pittsylvania		Sampling Date: 07/15/2015			
Applicant/Owner: MVP			,		Sampling Point: W-CC2 UP			
Investigator(s): JH, LM, LS	, CL	Section	on, Township, Range: N/					
Landform (hillslope, terrace, et					Slope (%): 2			
Subregion (LRR or MLRA): L					Datum: NAD 83			
Soil Map Unit Name: Madiso								
Are climatic / hydrologic condit								
· · · · · ·		•			resent? Yes No			
Are Vegetation, Soil				explain any answer	important features, etc.			
SOMMAN OF THE	— Attach site h	iap snowing san		nis, transects,	, important reatures, etc.			
Hydrophytic Vegetation Pres			Is the Sampled Area					
Hydric Soil Present?	Yes		within a Wetland?	Yes	No			
Wetland Hydrology Present? Remarks:	Yes	No						
HYDROLOGY								
Wetland Hydrology Indicat				<u> </u>	tors (minimum of two required)			
Primary Indicators (minimum	•		<u> </u>	Surface Soil (				
Surface Water (A1)		True Aquatic Plants (			etated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Od	or (C1) es on Living Roots (C3)	Drainage Pat				
Saturation (A3) Water Marks (B1)		Presence of Reduced	= : :	Moss Trim Lines (B16) Dry-Season Water Table (C2)				
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burrows (C8)				
Drift Deposits (B3)		Thin Muck Surface (0		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)		Other (Explain in Rer			ressed Plants (D1)			
Iron Deposits (B5)				Geomorphic I	Position (D2)			
Inundation Visible on Ae	rial Imagery (B7)			Shallow Aquitard (D3)				
Water-Stained Leaves (F	39)			Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:		<b>5</b> 4 4 4 5						
Surface Water Present?		_ Depth (inches):						
Water Table Present?		_ Depth (inches):						
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches):	Wetland F	lydrology Present	t? Yes No			
Describe Recorded Data (str	eam gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ilable:				
Remarks:								

Sampling Point: W-CC2 UPL

Troo Stratum (Plot size: 30'	Absolute		t Indicator	Dominance Test worksheet:	
Tiee Stratum (Flot size)		Species 2		Number of Dominant Species	
1. Fraxinus americana	25		<u>FACU</u>	That Are OBL, FACW, or FAC:0	(A)
2. Liriodendron tulipifera	60		<u>FACU</u>	Total Niverban of Danisant	
3. Robinia pseudoacacia	10		<u>FACU</u>	Total Number of Dominant Species Across All Strata: 5	(B)
4. Ailanthus altissima	15		FACU		(-)
5. Acer rubrum	10		FAC	Percent of Dominant Species That Are OBL_FACW_or FAC:  0	
· · · · · · · · · · · · · · · · · · ·			<u> 1710                                   </u>	That Are OBL, FACW, or FAC:(	(A/B)
6				Prevalence Index worksheet:	
7	100			Total % Cover of: Multiply by:	
	120	= Total Co	ver	OBL species x 1 =	
50% of total cover: 60	20% of	total cove	r: <u>24</u>		
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1. Lonicera X bella	15		<u>FACU</u>	FAC species x 3 =	
2				FACU species x 4 =	
3				UPL species x 5 =	
4				Column Totals: (A)	(B)
5					
				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Co		4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: 7.5	20% of	total cove	r: <u>      3                              </u>		Jillig
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)	
1. Ailanthus altissima	8		FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)	)
2. Lonicera japonica	35	~	FACU		
3. Rubus allegheniensis	40	<b>V</b>	FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ıst
		-	1 <u>700</u>	be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cr	n) or
6				more in diameter at breast height (DBH), regardles	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, le	000
9				than 3 in. DBH and greater than or equal to 3.28 ft	
10				m) tall.	`
11.				Herb – All herbaceous (non-woody) plants, regard	
	83	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.	iess
50% of total cover: 41.					
Woody Vine Stratum (Plot size: 15' )		1010.		<b>Woody vine</b> – All woody vines greater than 3.28 ft	t in
				height.	
1					
2					
3					
4				Hydrophytic	
5				Vegetation	
	0	= Total Co	ver	Present? Yes No	
50% of total cover: 0	20% of	total cove	r: <u> </u>		
Remarks: (Include photo numbers here or on a separate s	heet.)				

Sampling Point: W-CC2 UPL

SOIL

Depth	Matrix	-	needed to document the indicator or co Redox Features		Twiodit	,	
(inches)	Color (moist)	%	Color (moist) % Type <sup>1</sup> Lo	c <sup>2</sup> Textu		Remarks	
0-19"	10YR3/4	100		SL			
	-						
		· ——— —					
	-	<u> </u>					
	-						
	-	<del></del>					
	-	<u> </u>					
		<del></del>					
<sup>1</sup> Type: C=Co	oncentration, D=Dep	letion, RM=R	educed Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location	on: PL=Pore Lini	ng, M=Matrix	
Hydric Soil I					Indicators for Pr		
Histosol	(A1)		Dark Surface (S7)		2 cm Muck (	410) <b>(MLRA</b>	147)
	oipedon (A2)		Polyvalue Below Surface (S8) (MLRA	147, 148)	Coast Prairie		
Black Hi			Thin Dark Surface (S9) (MLRA 147, 1		(MLRA 14		
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	,	Piedmont Flo		(F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		, ,
2 cm Mu	ick (A10) (LRR N)		Redox Dark Surface (F6)		Very Shallow	Dark Surface	e (TF12)
Depleted	d Below Dark Surfac	e (A11)	Depleted Dark Surface (F7)		Other (Expla	in in Remarks	s)
	ark Surface (A12)		Redox Depressions (F8)				
Sandy M	lucky Mineral (S1) <b>(I</b>	_RR N,	Iron-Manganese Masses (F12) (LRR	N,			
MLRA	\ 147, 148)		MLRA 136)				
	lleyed Matrix (S4)		Umbric Surface (F13) (MLRA 136, 12		<sup>3</sup> Indicators of h		
Sandy R	edox (S5)		Piedmont Floodplain Soils (F19) (MLF	RA 148)	wetland hydro	logy must be	present,
	Matrix (S6)		Red Parent Material (F21) (MLRA 12)	7, 147)	unless disturb	ed or problem	natic.
Restrictive I	_ayer (if observed):	1					
Type:			<u></u>				
Depth (inc	ches):			Hydri	c Soil Present?	Yes	No 🗸
Remarks:						<u> </u>	

Project/Site: MVP	City/C	<sub>county:</sub> Pittsylvania		Sampling Date: 08/24/2015				
Applicant/Owner: MVP	State: VA	_ Sampling Point: W-MM5						
Investigator(s): A. Grech, A. Stott, M. Wh								
Landform (hillslope, terrace, etc.): Valley both	<del></del>			Slope (%): 1-4%				
Subregion (LRR or MLRA): LRRP	Lat: 36.90323	Lona: -79.46	7976	Datum: NAD 83				
Soil Map Unit Name: Cecil sandy clay loan		_						
Are climatic / hydrologic conditions on the site ty	pical for this time of year? Y	es V No (If r	no, explain in Rei	marks.)				
Are Vegetation, Soil, or Hydrolo								
Are Vegetation, Soil, or Hydrolo								
SUMMARY OF FINDINGS – Attach			•	,				
Hydrophytic Vegetation Present? Yes	✓ No							
	No	Is the Sampled Area	/					
Wetland Hydrology Present? Yes	. 1	within a Wetland?	Yes	No				
Remarks: Cowardin Code: PSS HGM: riverine	<u> </u>							
Information listed on this form represe of wetland hydrology, hydrophytic veg Supplement delineation methodology	etation, and hydric soils	n 2015. The wetland w s was confirmed using	ras revisited of the USACE I	on 11/17/2019. Presence EMP Regional				
HYDROLOGY								
Wetland Hydrology Indicators:				ors (minimum of two required)				
Primary Indicators (minimum of one is required			_ Surface Soil C					
Surface Water (A1) True Aquatic Plants (B14) Sparsely Vegetated Concave Surface								
High Water Table (A2)	Hydrogen Sulfide Od		Drainage Patte					
Saturation (A3)	<ul> <li>Oxidized Rhizosphero</li> <li>Presence of Reduced</li> </ul>	• , ,	Moss Trim Line					
Water Marks (B1) Sediment Deposits (B2)	Recent Iron Reductio	` '	Crayfish Burro	ater Table (C2)				
Drift Deposits (B3)	Thin Muck Surface (C	` ' —	_ ,	ible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Ren			essed Plants (D1)				
Iron Deposits (B5)			Geomorphic P					
Inundation Visible on Aerial Imagery (B7)		<u> </u>	_ Shallow Aquita	, ,				
Water-Stained Leaves (B9)		<u> </u>	Microtopographic Relief (D4)					
Aquatic Fauna (B13)			_ FAC-Neutral T	est (D5)				
Field Observations:								
	/ Ворит (итогтов)	<u>1"</u>						
	Bopui (interioo)	5"						
	Depth (inches):	O" Wetland Hyd	rology Present	? Yes <u>/</u> No				
(includes capillary fringe)  Describe Recorded Data (stream gauge, moni	toring well, aerial photos, pre	vious inspections), if availat	ole:					
Remarks:								
Connects to s-mm8								

EGETATION (Four Strata) – Use scientific na	ames of	plants.		Sampling Point: W-MM5
30'	Absolute	Dominant		Dominance Test worksheet:
Tree Stratum (Plot size: 30' ) 1)	% Cover	Species?	Status	Number of Dominant Species That Are OBL, FACW, or FAC: 6 (A)
2				Total Newhord Davidson
3				Total Number of Dominant Species Across All Strata:  6 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)
6				That Ale OBL, FACW, of FAC. (A/B)
7		-		Prevalence Index worksheet:
	0	= Total Cov		Total % Cover of: Multiply by:
50% of total cover:0		total cover:	_	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )		1010.		FACW species x 2 =
1. Alnus serrulata	10	<b>/</b>	OBL	FAC species x 3 =
2. Acer rubrum	10	~	FAC	FACU species x 4 =
2. Carpinus caroliniana	10		FAC	UPL species x 5 =
· · · · · · · · · · · · · · · · · · ·			r <u>AC</u>	Column Totals: (A) (B)
4				(i)(b)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 15	20% of	total cover:	6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
<sub>1.</sub> Juncus effusus	45		F <u>ACW</u>	Floblematic Hydrophytic Vegetation (Explain)
2. Eupatorium perfoliatum	20		F <u>ACW</u>	The disease of budgie and modern debuggers and
3. Cyperus esculentus	20		FACW_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Boehmeria cylindrica	10		FACW_	Definitions of Four Vegetation Strata:
<sub>5.</sub> Pilea pumila	5		F <u>ACW</u>	John Mondon Four Pogotation Circuia
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7		·		more in diameter at breast height (DBH), regardless of height.
8				
9.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10		-		m) tall.
11.				
	100	= Total Cov		Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50	20% of	total cover:	20	or size, and woody plants loss than size it tall.
Woody Vine Stratum (Plot size: 15' )		total covor.		<b>Woody vine</b> – All woody vines greater than 3.28 ft in
				height.
2				
3				
4				Hydrophytic
5				Vegetation Present? Ves V
500/ (1.1.)			_	riesent: res No
		total cover:		
5	20% of	= Total Cov total cover:	_	Present? Yes <u>✓</u> No

Sampling Point: W-MM5

SOIL

	Type¹ Loc² C M/PL	SiL SL	Remarks
	<u> </u>		
		SL	
·			
· ·			
<del></del>			
<u> </u>			
<del>-</del>		2	
MS=Masked S	Sand Grains.	Location: PL=Po	re Lining, M=Matrix.
(07)			for Problematic Hydric Soils <sup>3</sup> :
	(CO) (MI DA 447		Muck (A10) (MLRA 147)
			Prairie Redox (A16)
			.RA 147, 148) ont Floodplain Soils (F19)
	<del>-</del> )		.RA 136, 147)
, ,	)		Shallow Dark Surface (TF12)
, ,	•		(Explain in Remarks)
pressions (F8)			
janese Masses	s (F12) <b>(LRR N,</b>		
136)		2	
			rs of hydrophytic vegetation and
			I hydrology must be present,
nt Material (F21	1) (MLRA 127, 147	7) unless o	disturbed or problematic.
		Hydric Soil Pres	sent? Yes <u> </u>
	ace (S7) Below Surface Surface (S9) ( eyed Matrix (F3) rk Surface (F6 Dark Surface (F8) anese Masses 136) urface (F13) (N Floodplain Soi	Below Surface (S8) (MLRA 147, Surface (S9) (MLRA 147, 148) eyed Matrix (F2) Matrix (F3) rk Surface (F6) Dark Surface (F7) pressions (F8) anese Masses (F12) (LRR N, 136) urface (F13) (MLRA 136, 122) Floodplain Soils (F19) (MLRA 14	Indicators   2 cm M   2 cm M

# **Wetland Photograph Page**

#### Wetland ID W-MM5



Photograph Direction North

Date: 08/24/2015

Comments: 2015 wetland delineation.



Photograph Direction NE

Date: 11/17/19

Project/Site: MVP		City	County: Pittsylvania	vania Sampling Date: 08/2			
Applicant/Owner: MVP		,		Sampling Point: W-MM5 UPL			
Investigator(s): A. Grech, A	Stott, M. Whitter	n <sub>Sec</sub>	tion, Township, Range; N		•		
• ,,		<del></del>			Slope (%): 3-6%		
Subregion (LRR or MLRA): L					Datum: NAD 83		
Soil Map Unit Name: Cecil s			-				
Are climatic / hydrologic condit					<u></u>		
Are Vegetation, Soil					present? Yes No		
Are Vegetation, Soil				explain any answe			
SUMMARY OF FINDIN	GS – Attach site	map showing sa	mpling point location	ons, transects	s, important features, etc.		
Hydrophytic Vegetation Pres	ent? Yes	No 🗸					
Hydric Soil Present?		No	is the Sampled Area		No ✓		
Wetland Hydrology Present?			within a Wetland?	165			
Upland							
HYDROLOGY							
Wetland Hydrology Indicat	ors:			Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum	of one is required; ch	eck all that apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)	_	True Aquatic Plants	s (B14)	Sparsely Ve	getated Concave Surface (B8)		
High Water Table (A2)	_	Hydrogen Sulfide C	odor (C1)	<ul><li> Drainage Patterns (B10)</li><li> Moss Trim Lines (B16)</li><li> Dry-Season Water Table (C2)</li></ul>			
Saturation (A3)	<del>-</del>	Oxidized Rhizosphe	eres on Living Roots (C3)				
Water Marks (B1)	_	Presence of Reduc					
Sediment Deposits (B2)	_		ion in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	-	Thin Muck Surface		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	Other (Explain in Re	emarks)		Stressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Ae	rial Imagary (P7)				norphic Position (D2)		
Water-Stained Leaves (I	• • • •				_ Shallow Aquitard (D3) _ Microtopographic Relief (D4)		
Aquatic Fauna (B13)	39)			FAC-Neutra			
Field Observations:							
Surface Water Present?	Yes No	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?		Depth (inches):		Hydrology Prese	nt? Yes No		
(includes capillary fringe)  Describe Recorded Data (str	eam gauge monitorin	a well perial photos in	revious inspections) if ava	ailahla:			
Describe Necorded Data (Str	cam gauge, monitoring	g wen, aenai priotos, p	revious inspections), ii ave	mable.			
Remarks:							
1							

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-MM5 UPL

	0/ 0		Indicator	Dominance Test worksheet:		
1 Liriodendron tulipifera	% Cover 20	Species? ✓	FACU	Number of Dominant Species	2	(4)
"			I ACO	That Are OBL, FACW, or FAC		_ (A)
2				Total Number of Dominant		
3				Species Across All Strata:	4	_ (B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC	50	(A/B)
6						
7				Prevalence Index worksheet		
	20 :	= Total Cov	er	Total % Cover of:		
50% of total cover:10				OBL species		
Sapling/Shrub Stratum (Plot size: 15')				FACW species	x 2 =	
1. Cornus florida	30	<b>✓</b>	FACU	FAC species	x 3 =	
2. Quercus rubra	10		FACU	FACU species	x 4 =	_
3. Rubus allegheniensis	10		FACU	UPL species	x 5 =	_
4 Quercus alba	5		FACU	Column Totals:	(A)	(B)
· ''					. ,	_ ` ′
5				Prevalence Index = B/A	=	
6				Hydrophytic Vegetation India	cators:	
7				1 - Rapid Test for Hydroph	ytic Vegetation	
8				2 - Dominance Test is >50	1%	
9				3 - Prevalence Index is ≤3	.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptati		pporting
50% of total cover: <u>27.5</u>	20% of	total cover:	11	data in Remarks or on		-
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic \		
1				Problematic Hydrophytic V	regetation (Expi	am)
2				1		
3				<sup>1</sup> Indicators of hydric soil and w be present, unless disturbed o		must
4				· ·		
5				Definitions of Four Vegetation	on Strata:	
6		-		Tree - Woody plants, excludin	g vines, 3 in. (7.6	6 cm) or
				more in diameter at breast heigh	ght (DBH), regar	dless of
7				height.		
8				Sapling/Shrub - Woody plant		
9				than 3 in. DBH and greater tha	n or equal to 3.2	8 ft (1
10				m) tall.		
11.				Hank All bankasasııs (nan		
· · · · · · · · · · · · · · · · · · ·	_			Herb – All herbaceous (non-we	oody) plants, reg	ardless
		= Total Cov		of size, and woody plants less	oody) plants, reg than 3.28 ft tall.	ardless
50% of total cover: 0		= Total Cov total cover:		of size, and woody plants less	than 3.28 ft tall.	
50% of total cover: 0 Woody Vine Stratum (Plot size: 15' )	20% of			of size, and woody plants less  Woody vine – All woody vines height.	than 3.28 ft tall.	
50% of total cover: 0  Woody Vine Stratum (Plot size: 15' )  1. Vitis rotundifolia	20% of			of size, and woody plants less  Woody vine – All woody vines	than 3.28 ft tall.	
50% of total cover: 0 Woody Vine Stratum (Plot size: 15' )	20% of		0	of size, and woody plants less  Woody vine – All woody vines	than 3.28 ft tall.	
50% of total cover: 0  Woody Vine Stratum (Plot size: 15' )  1. Vitis rotundifolia 2. Smilax rotundifolia	20% of		O FAC	of size, and woody plants less  Woody vine – All woody vines	than 3.28 ft tall.	
50% of total cover: 0  Woody Vine Stratum (Plot size: 15' )  1. Vitis rotundifolia 2. Smilax rotundifolia	20% of		O FAC	of size, and woody plants less  Woody vine – All woody vines height.	than 3.28 ft tall.	
50% of total cover: 0 Woody Vine Stratum (Plot size: 15' ) 1. Vitis rotundifolia 2. Smilax rotundifolia 3. 4.	20% of		O FAC	of size, and woody plants less  Woody vine – All woody vines height.  Hydrophytic	than 3.28 ft tall.	
50% of total cover: 0  Woody Vine Stratum (Plot size: 15' )  1. Vitis rotundifolia 2. Smilax rotundifolia	20% of 10 10	total cover:	FAC FAC	of size, and woody plants less  Woody vine – All woody vines height.	than 3.28 ft tall.	
50% of total cover: 0 Woody Vine Stratum (Plot size: 15' ) 1. Vitis rotundifolia 2. Smilax rotundifolia 3. 4.	20% of 10 10 20		FAC FAC	of size, and woody plants less  Woody vine – All woody vines height.  Hydrophytic Vegetation	than 3.28 ft tall.	

Sampling Point: W-MM5 UPL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the ir	ndicator	or confirm	the absen	ce of indicat	ors.)		
Depth	Matrix		Redo	k Features	,						
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S	
0-20"	10YR 5/3	100					L				
			_								
·											
								_			
	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	S=Masked	Sand Gra	ains.		PL=Pore Lin			
Hydric Soil	Indicators:						Ind	licators for P	roblematic	Hydric Soils <sup>3</sup>	·:
Histosol	, ,		Dark Surface					2 cm Muck		•	
Histic Ep	oipedon (A2)		Polyvalue Be				148)	Coast Prairi	•	6)	
Black Hi			Thin Dark Su			47, 148)		(MLRA 1			
	n Sulfide (A4)		Loamy Gleye		<del>-</del> 2)			Piedmont Fl		ils (F19)	
	d Layers (A5)		Depleted Mat					(MLRA 1			
	ick (A10) (LRR N)	(* ( * )	Redox Dark S	•	,			Very Shallo		, ,	
	d Below Dark Surface	(A11)	Depleted Dar					Other (Expla	ain in Remar	KS)	
	ark Surface (A12) lucky Mineral (S1) <b>(L</b>	DD N	Redox Depre			DD N					
	iucky Mineral (ST) (L \ 147, 148)	KK N,	Iron-Mangane		S (F 12) (I	LKK N,					
	Gleyed Matrix (S4)		Umbric Surfa		MI DA 13	6 122)	3	Indicators of k	ovdrophytic v	egetation and	
	ledox (S5)		Piedmont Flo					wetland hydr		-	'
	Matrix (S6)		Red Parent M					unless disturb			
	_ayer (if observed):				- · / <b>(</b>	,	<del>,</del>	u	, p. 65.		
Type:	, , , , , , , , , , , , , , , , , , , ,										
	choc):		<del>_</del>				Hydric S	oil Present?	Yes	No 🗸	
	ches):		_				Hyuric 3	Oli Fresent:	169		_
Remarks:											

Project/Site: MVP		City/County: Pittsylvania Sampling Date: 08/25/2015					
Applicant/Owner: MVP			Sampling Point: W-MM9				
Investigator(s): A. Grech, A. Stott, M	. Whitten	Section	n. Township. Range: N/	'A			
Landform (hillslope, terrace, etc.): Valley					Slope (%): 1-4%		
Subregion (LRR or MLRA): LRRP				-	Datum: NAD 83		
Soil Map Unit Name: Chenneby-Tocc							
Are climatic / hydrologic conditions on the							
Are Vegetation, Soil, or Hy							
Are Vegetation, Soil, or Hy				explain any answer			
SUMMARY OF FINDINGS – Atta							
			pg perior recuire		,		
Hydrophytic Vegetation Present?	Yes		Is the Sampled Area				
Hydric Soil Present?	Yes /	No	within a Wetland?	Yes	No		
Wetland Hydrology Present?  Remarks:	res	No					
Cowardin Code: PEM HGM: dep	ression W	T: RPWWN					
Information listed on this form rep Presence of wetland hydrology, h Supplement delineation methodo	resents the ydrophytic logy.	e data collected ir vegetation, and h	n 2015. The wetland nydric soils was con	d was revisited firmed using th	on MM/DD/2019. le USACE EMP Regional		
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indicat	tors (minimum of two required)		
Primary Indicators (minimum of one is re	quired; check	all that apply)		Surface Soil 0	Cracks (B6)		
Surface Water (A1)		True Aquatic Plants (F	314)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pat	terns (B10)		
Saturation (A3)			es on Living Roots (C3)	Moss Trim Lir			
Water Marks (B1)		Presence of Reduced	` '	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burrows (C8)			
Drift Deposits (B3)		Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	(	Other (Explain in Rem	narks)		ressed Plants (D1)		
Iron Deposits (B5) Inundation Visible on Aerial Imagery	(D7)			Geomorphic I			
Water-Stained Leaves (B9)	(D <i>l</i> )			Shallow Aquitard (D3) Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral	, , ,		
Field Observations:				1710 110 11101	1001 (00)		
	No. V	Depth (inches):					
		Depth (inches):					
		Depth (inches):		lydrology Present	t? Yes ✔ No		
(includes capillary fringe)					t: res NO		
Describe Recorded Data (stream gauge,	monitoring w	rell, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:							
. tomano							

/EGETATION (Four Strata) – Use scientific n	ames of	plants.		Sampling Point: W-MM9
20'	Absolute			Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1			· -	That Are OBL, FACW, or FAC:3 (A)
2			·	Total Number of Dominant
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 75 (A/B)
6				December of the second short
7				Prevalence Index worksheet:
		= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover	. 0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5. <u> </u>				Dravelence Index - B/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
8				1 - Rapid Test for Hydrophytic Vegetation
9				2 - Dominance Test is >50%
v. <u> </u>	0	= Total Cov		3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 0				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Microstegium vimineum	30	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Persicaria sagittata	20		OBL	
3. Onoclea sensibilis	15		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Lamium purpureum	15		UPL	be present, unless disturbed or problematic.
5. Commelina communis	10	·	FAC	Definitions of Four Vegetation Strata:
6. Vernonia noveboracensis	5			<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Amphicarpaea bracteata		-	FACW_	more in diameter at breast height (DBH), regardless of
· ·		-	F <u>AC</u>	height.
8		·	· ——	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11	400	-		Herb – All herbaceous (non-woody) plants, regardless
60		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50 Woody Vine Stratum (Plot size: 15' )	20% of	total cover		Woody vine – All woody vines greater than 3.28 ft in
Trocay vino chatam (Fiot oizo:				height.
1				
2			· ——	
3			·	
4				Hydrophytic
5				Vegetation
	0	= Total Cov	_	Present? Yes No
50% of total cover:0	20% of	total cover	: 0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-MM9

SOIL

Depth (inches)	Matrix	%	Redo	x Features	Type <sup>1</sup> Loc <sup>2</sup>	Touturo		Domorko	
(inches) 0-6"	Color (moist) 10YR 4/2	90	Color (moist) 5YR 4/6		$\frac{\text{Type}^1}{\text{C}}  \frac{\text{Loc}^2}{\text{M/PL}}$	Texture SCL	-	Remarks	
	10YR 4/1					-			
6-15"	101R 4/1	90	5YR 4/6	10	C M/PL	SCL			
15+"						-		Refusal:	CT .
					· · · · · · · · · · · · · · · · · · ·				
					·	-			
ype: C=Co	ncentration, D=Dep	letion, RM=	Reduced Matrix, M	S=Masked S	Sand Grains.	<sup>2</sup> Location: F	L=Pore Lin	ing, M=Matrix.	
ydric Soil II		•	,			Indic	ators for P	roblematic Hy	dric Soils <sup>3</sup> :
_ Histosol (	(A1)		Dark Surface	e (S7)		2	2 cm Muck (	A10) <b>(MLRA 1</b>	47)
_ Histic Ep	ipedon (A2)		Polyvalue Be	elow Surface	(S8) <b>(MLRA 147</b>	, 148) (	Coast Prairie	e Redox (A16)	
_ Black His	stic (A3)			. , .	MLRA 147, 148)		(MLRA 14	l7, 148)	
	n Sulfide (A4)		Loamy Gley		2)	F		oodplain Soils (	(F19)
	Layers (A5)		Depleted Ma				(MLRA 13		
	ck (A10) (LRR N)	- (044)	Redox Dark	, ,				v Dark Surface	
	Below Dark Surface rk Surface (A12)	e (A11)	Depleted Da Redox Depre	•	-7)	_ '	⊃tner (Expia	in in Remarks)	
	ucky Mineral (S1) (L	RR N			(F12) <b>(LRR N,</b>				
	. 147, 148)	,	MLRA 13		(1 12) <b>(Little)</b>				
	leyed Matrix (S4)			•	LRA 136, 122)	<sup>3</sup> Inc	dicators of h	ydrophytic veg	etation and
	edox (S5)				s (F19) (MLRA 1			ology must be p	
_ Stripped	Matrix (S6)		Red Parent I	Material (F21	) <b>(MLRA 127, 14</b>	<b>7)</b> ur	nless disturb	ed or problema	atic.
	.ayer (if observed):								
Type: CF			<u></u>						
<b>D</b>	<sub>:hes):</sub> <u>15</u>					Hydric Soi	I Present?	Yes 🔽	No
Depth (inc									
Depth (inc									

# **Wetland Photograph Page**

#### Wetland ID W-MM9



Photograph Direction West

Date: 08/25/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/18/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/0	County: Pittsylvania		Sampling Date: 08/25/2015	
Applicant/Owner: MVP				•		Sampling Point: W-MM9 UPL	
Investigator(s): A. Grech, A. Stott,	M. Whitten		Sect	ion, Township, Range:		<u> </u>	
Landform (hillslope, terrace, etc.): hills						Slope (%): 3-6%	
Subregion (LRR or MLRA): LRRP				Long: -79		Datum: NAD 83	
Soil Map Unit Name: Chenneby-To							
Are climatic / hydrologic conditions on t						·	
Are Vegetation, Soil, or			-				
Are Vegetation, Soil, or SUMMARY OF FINDINGS – A					explain any answe		
SOMIMART OF THE DINGS - A	.ttacii site iii	iap siii	owing sai		ons, nansect	s, important reatures, etc.	
Hydrophytic Vegetation Present?	Yes		<u>/</u>	Is the Sampled Area			
Hydric Soil Present?	Yes		<u>v</u>	within a Wetland?	Yes	No	
Wetland Hydrology Present?  Remarks:	Yes	No					
HYDROLOGY							
Wetland Hydrology Indicators:					Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is	required; checl	k all that	apply)		Surface Soil	Cracks (B6)	
Surface Water (A1)			uatic Plants		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)		-	en Sulfide O		Drainage Pa		
Saturation (A3)				res on Living Roots (C3)			
Water Marks (B1)			ce of Reduce			Water Table (C2)	
Sediment Deposits (B2) Drift Deposits (B3)			ick Surface (	on in Tilled Soils (C6)	Crayfish Bui	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)			Explain in Re			Stressed Plants (D1)	
Iron Deposits (B5)				,	Geomorphic		
Inundation Visible on Aerial Image	ery (B7)				Shallow Aqu		
Water-Stained Leaves (B9)					Microtopogr	aphic Relief (D4)	
Aquatic Fauna (B13)					FAC-Neutra	Test (D5)	
Field Observations:							
	No						
	No						
Saturation Present? Yes (includes capillary fringe)	No	Depth	(inches):	Wetland	Hydrology Prese	nt? Yes No	
Describe Recorded Data (stream gauge	ge, monitoring v	well, aeri	al photos, pr	evious inspections), if av	vailable:		
Remarks:							

# **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-MM9 UPL

Troo Stratum (Blot cizo: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tiee Stratum (Flot size)		Species?		Number of Dominant Species	
1. Liriodendron tulipifera			FACU_	That Are OBL, FACW, or FAC: 2	(A)
2. Platanus occidentalis	5		<u>FACW</u>	Total Number of Dominant	
3				Species Across All Strata: 5	(B)
4				B (10 ) (2 )	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 40	(A/B)
6				mat Ale OBE, I AOW, OI I AO.	(٨/٥)
7		-		Prevalence Index worksheet:	
r	10	= Total Cov	or	Total % Cover of: Multiply by:	
50% of total cover: 5				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )	2070 01	total oover.		FACW species x 2 =	
4 luglans nigra	5	~	FACU	FAC species x 3 =	
· · · · · · · · · · · · · · · · · · ·			1 700	FACU species x 4 =	
2				UPL species x 5 =	
3					
4				Column Totals: (A)	(B)
5		-		Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	_
7				1 - Rapid Test for Hydrophytic Vegetation	
8				2 - Dominance Test is >50%	
9					
	_	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: <u>2.5</u>	20% of	total cover:	1	4 - Morphological Adaptations <sup>1</sup> (Provide sup	
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)	
1. Microstegium vimineum	40	<b>/</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Expla	ıin)
2. Clinopodium vulgare	20	<b>V</b>	UPL		
3. Verbesina alternifolia	10		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology	must
4 Senna marilandica	10	-	FAC	be present, unless disturbed or problematic.	
5. Prunella vulgaris	10		FACU	Definitions of Four Vegetation Strata:	
		-	r <u>ACU</u>	Tree – Woody plants, excluding vines, 3 in. (7.6	cm) or
6				more in diameter at breast height (DBH), regard	
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines	s. less
9				than 3 in. DBH and greater than or equal to 3.28	
10				m) tall.	
11				Herb – All herbaceous (non-woody) plants, rega	ardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: 45	20% of	total cover:	18	Woody vine – All woody vines greater than 3.28	2 ft in
Woody Vine Stratum (Plot size:15')				height.	3 11 111
1					
2					
3		·			
4					
5.				Hydrophytic Vegetation	
<u>.                                    </u>	_	= Total Cov		Present? Yes No	
50% of total cover: 0		total cover:	^		
Remarks: (Include photo numbers here or on a separate s		.5.01 00 001			
Remarks. (include prioto numbers here or on a separate s	neet.)				

SOIL Sampling Point: W-MM9 UPL

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator o	or confirm	the abs	ence of indicate	ors.)	
Depth	Matrix		<u>Re</u> do	x Feature:	S					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Textu		Remarks	
0-5"	10 YR 4/4	100					SiL	<u>-                                      </u>		
5-20"	10YR 5/4	100					GrS	iL		
								<u> </u>		·
-							-	<del></del>		
¹Type: C=Co	oncentration, D=Depl	etion RM=I	Reduced Matrix MS	S=Masked	Sand Gra	nins	<sup>2</sup> Locatio	on: PL=Pore Lin	ing M=Matrix	_
Hydric Soil		Ction, rawi–i	reduced Matrix, Me	J-Masket	TOATIG OTE		Localic	Indicators for P	roblematic Hv	dric Soils <sup>3</sup> :
Histosol			Dark Surface	(S7)					(A10) <b>(MLRA 1</b>	
	oipedon (A2)		Polyvalue Be		ce (S8) <b>(M</b>	LRA 147.	148)	Coast Prairie		"'
Black Hi			Thin Dark Su				,	(MLRA 14		
	n Sulfide (A4)		Loamy Gleye			, -,			oodplain Soils	(F19)
Stratified	Layers (A5)		Depleted Ma		,			(MLRA 13		,
2 cm Mu	ick (A10) (LRR N)		Redox Dark	Surface (F	<sup>-</sup> 6)			Very Shallov	w Dark Surface	(TF12)
	d Below Dark Surface	e (A11)	Depleted Dar				-	Other (Expla	ain in Remarks)	
	ark Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		es (F12) <b>(I</b>	_RR N,				
	147, 148)		MLRA 13		MIDA 42	6 400\		3Indicators of b	draabtiaa	atation and
	edox (S5)		Umbric Surfa Piedmont Flo				10/		ydrophytic veg ology must be p	
-	Matrix (S6)		Red Parent N						ped or problema	
	_ayer (if observed):		Near arent is	viateriai (i	Z I) (IVILIX	7 127, 177	1	dilicas distait	oca or problema	atio.
Type:	-uyo: ( oboo. vou).									
• • •	ches):						Lludria	Soil Present?	Yes	No 🗸
	Jiles)						пушт	J JOH Flesent:	165	140
Remarks:										

Project/Site: MVP	City/County: Pittsylvania	Sampling Date: 08/25/2015
Applicant/Owner: MVP		_ State: VA Sampling Point: W-MM8-PEM
Investigator(s): A. Grech, A. Stott, M. Whitten	Section, Township, Range; N	/A
Landform (hillslope, terrace, etc.): Valley bottom		·
Subregion (LRR or MLRA): LRRP La		0.44552 Datum: NAD 83
Soil Map Unit Name: Chenneby-Toccoa compl		
Are climatic / hydrologic conditions on the site typical		<del></del>
Are Vegetation, Soil, or Hydrology	·	I Circumstances" present? Yes No
Are Vegetation, Soil, or Hydrology	<del></del> • •	· — —
SUMMARY OF FINDINGS – Attach site		explain any answers in Remarks.)
SUMMART OF FINDINGS - Attach site		ons, transects, important reatures, etc.
Hydrophytic Vegetation Present? Yes	No Is the Sampled Area	
Hydric Soil Present? Yes	No within a Wetland?	Yes No
Wetland Hydrology Present? Yes	No	
Remarks: Cowardin Code: PEM HGM: depression	NT: RPWWN	
Information listed on this form represents to wetland hydrology, hydrophytic vegetati Supplement delineation methodology.	he data collected in 2015. The wetlan on, and hydric soils was confirmed us	d was revisited on 11/18/2019. Presence ing the USACE EMP Regional
HYDROLOGY		
Wetland Hydrology Indicators:		Secondary Indicators (minimum of two required)
Primary Indicators (minimum of one is required; che		Surface Soil Cracks (B6)
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roots (C3)	Moss Trim Lines (B16)
Water Marks (B1) Sediment Deposits (B2)	Presence of Reduced Iron (C4) Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) Crayfish Burrows (C8)
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7)	Crayisi Burlows (Co) Saturation Visible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or Stressed Plants (D1)
Iron Deposits (B5)	- Caror (Explain III remaile)	Geomorphic Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)		Microtopographic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutral Test (D5)
Field Observations:		
	Depth (inches):	
	_ Depth (inches):	
	_ Depth (inches): Wetland I	Hydrology Present? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitoring	well, aerial photos, previous inspections), if ava	ailable:
Remarks:		

Sampling	Point: W-MM8-PEM
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201	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30' )	% Cover			Number of Dominant Species That Are OBL, FACW, or FAC:4 (A)
2				Total Number of Dominant Species Across All Strata: 4* (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:100 (A/B)
7				Prevalence Index worksheet:
	0 =	Total Cov	/er	Total % Cover of: Multiply by:
50% of total cover:0				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	^			3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ // /		Total Cov	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 0	20% of	total cover	:0	data in Remarks or on a separate sheet)
Tiero Stratum (Fiot Size)	30	<b>/</b>	EAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Microstegium vimineum 2. Verbesina alternifolia	20		FAC	
3. Poa trivialis	15		FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
			F <u>ACW</u>	be present, unless disturbed or problematic.
4. Eupatorium perfoliatum	15		FACW_	Definitions of Four Vegetation Strata:
5. Dryopteris sp.*	<u>15</u>		ND	Tree Meady plants avaluding vines 2 in (7.6 cm) or
6. Boehmeria cylindrica 7.			F <u>ACW</u>	<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.
8				Continui Chaush Wanda alauta ayaladin ayinga laga
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100 =	Total Cov	ver .	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50	20% of	total cover	: 20	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0 =	Total Cov	/er	Present? Yes No
50% of total cover:0	20% of	total cover	:0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND- Not determined				
*Not identified to species, not included in domination	ance test			

Sampling Point: W-MM8-PEM

SOIL

Profile Desc	cription: (Describe t	o the dept	h needed to docun	ent the i	indicator	or confirm	the absence	of indicators.)				
Depth	Matrix		Redox	c Feature	S							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks				
0-6"	10YR 4/2	90	5YR 4/6	10	С	M/PL	SCL					
6-15"	10YR 4/1	90	5YR 4/6	10	С	M/PL	SCL					
15+"								Refusal:cf				
					-	· ——						
						<del></del>						
						- ——						
					-							
<sup>1</sup> Type: C=C	oncentration D=Denk	etion RM=	Reduced Matrix MS		Sand Gr	ains	<sup>2</sup> Location: Pl	=Pore Lining M=Matrix				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Pl=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :												
Histosol			Dark Surface	(S7)				cm Muck (A10) (MLRA 147)				
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) (N	/ILRA 147,		oast Prairie Redox (A16)				
	istic (A3)		Thin Dark Su		. , .		-, <u>—</u>	(MLRA 147, 148)				
	en Sulfide (A4)		Loamy Gleye			. ,	P	iedmont Floodplain Soils (F19)				
Stratified	d Layers (A5)		Depleted Mat	rix (F3)				(MLRA 136, 147)				
2 cm Mu	uck (A10) (LRR N)		Redox Dark S	Surface (F	<del>-</del> 6)		v	ery Shallow Dark Surface (TF12)				
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface	e (F7)		0	ther (Explain in Remarks)				
Thick Da	ark Surface (A12)		Redox Depre	ssions (F	8)							
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,						
	A 147, 148)		MLRA 136									
	Sleyed Matrix (S4)		Umbric Surfa					icators of hydrophytic vegetation and				
	Redox (S5)		Piedmont Flo					tland hydrology must be present,				
	l Matrix (S6)		Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	) unl	ess disturbed or problematic.				
	Layer (if observed):											
Type: CI												
Depth (in	ches): <u>15</u>						Hydric Soil	Present? Yes No				
Remarks:												

# **Wetland Photograph Page**

#### Wetland ID W-MM8-PEM



Photograph Direction North

Date: 08/25/2015

Comments: 2015 wetland delineation.



Photograph Direction East

Date: 11/18/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/Co	Sampling Date: 08/25/2015				
Applicant/Owner: MVP		,	,	State: VA	Sampling Point: W-MM8-PFO		
Investigator(s): A. Grech, A. Stott, M. W	hitten				_		
Landform (hillslope, terrace, etc.): Valley bo					Slope (%): 1-4%		
Subregion (LRR or MLRA): LRRP					Datum: NAD 83		
Soil Map Unit Name: Chenneby-Toccoa							
Are climatic / hydrologic conditions on the site							
Are Vegetation, Soil, or Hydrol		-			resent? Yes No		
Are Vegetation, Soil, or Hydrol		-					
SUMMARY OF FINDINGS – Attach				explain any answer			
			omig pomit locatio	ina, transcotts	, important reatures, etc.		
	5 <u>/</u>		Is the Sampled Area				
	S		within a Wetland?	Yes	No		
Wetland Hydrology Present? Yes	<u> </u>	No					
Remarks: Cowardin Code: PFO HGM: Depres	sion V	VT: RPWWN					
Information listed on this form repres of wetland hydrology, hydrophytic ve Supplement delineation methodology	ents th getatio	ne data collected in on, and hydric soils	2015. The wetland was confirmed usi	d was revisited ng the USACE	on 11/18/2019. Presence EMP Regional		
HYDROLOGY							
Wetland Hydrology Indicators:				Secondary Indica	tors (minimum of two required)		
Primary Indicators (minimum of one is require	ed; chec	k all that apply)		Surface Soil Cracks (B6)			
Surface Water (A1)	_	True Aquatic Plants (B		Sparsely Veg	etated Concave Surface (B8)		
High Water Table (A2)		Hydrogen Sulfide Odor	, ,	Drainage Pat	, ,		
Saturation (A3)		Oxidized Rhizospheres	• , ,	Moss Trim Li			
Water Marks (B1)	_	Presence of Reduced	` '	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	_		duction in Tilled Soils (C6) Crayfish Burrows (C8) ace (C7) Saturation Visible on Aerial Imagery (C9)				
Drift Deposits (B3) Algal Mat or Crust (B4)	_	Thin Muck Surface (C7 Other (Explain in Rema			= : : :		
Iron Deposits (B5)	_	Other (Explain in Reine	arko)	Stunted or Stressed Plants (D1) Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery (B7	)			Shallow Aquitard (D3)			
Water-Stained Leaves (B9)				Microtopographic Relief (D4)			
Aquatic Fauna (B13)				FAC-Neutral Test (D5)			
Field Observations:							
		Depth (inches):					
		Depth (inches):					
	lo <u>     /                               </u>	Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>/</u> No		
(includes capillary fringe)  Describe Recorded Data (stream gauge, more	nitoring	well, aerial photos, previ	ous inspections), if ava	ilable:			
, , ,			•				
Remarks:							

Sampling Point: W-MI	M8-F	PΓΟ
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1 Acer rubrum	45	<b>V</b>	FAC	That Are OBL, FACW, or FAC: 5 (A)
	-			
2		-		Total Number of Dominant
3	-			Species Across All Strata:5 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				(77 <i>B</i> )
				Prevalence Index worksheet:
7	45	T		Total % Cover of: Multiply by:
100		= Total Cov		OBL species x 1 =
50% of total cover: <u>22.5</u>	20% of	total cover:	9	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1. Lindera benzoin	30		FAC	FAC species x 3 =
2. Carpinus caroliniana	20	<b>✓</b>	FAC	FACU species x 4 =
2			. <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	UPL species x 5 =
3		-		Column Totals: (A) (B)
4		-		Column Totals (A) (B)
5				Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8	-			✓ 2 - Dominance Test is >50%
9			·	3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 25	20% of	total cover:	10	
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Microstegium vimineum	40	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex crinita	30			
			OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Poa trivialis	15		F <u>ACW</u>	be present, unless disturbed or problematic.
4. Onoclea sensibilis	5		FACW_	Definitions of Four Vegetation Strata:
5. Boehmeria cylindrica	5		FACW	beninions of Four Vogetation Offata.
6. Carex intumescens			FACW	Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
			r <u>ACW</u>	more in diameter at breast height (DBH), regardless of
7		-		height.
8	-			Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
11.	100			Herb – All herbaceous (non-woody) plants, regardless
· · · · · · · · · · · · · · · · ·		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50</u>	20% of	total cover:	20	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15' )				height.
1				
2				
2				
J	-			
4				Hydrophytic
5				Vegetation
	0	= Total Cov	er	Present? Yes No
50% of total cover: 0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
	,			

Sampling Point: W-MM8-PFO

SOIL

Profile Desc	ription: (Describe t	o the dept	h needed to docun	ent the i	indicator	or confirm	the absence	of indicators.)				
Depth	Matrix		Redox	c Feature	s							
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks				
0-8"	10YR 5/2	85	5YR 4/6	15	С	M/PL	SiCL					
8-20"	2.5YR 5/1	90	5YR 5/8	10	С	М	SiCL					
					-							
						· ——						
<sup>1</sup> Type: C=C	oncentration D-Denk	etion RM-	Reduced Matrix MS	-Maskar	d Sand Gr	aine	<sup>2</sup> Location: P	L –Pore Lining M–Matrix				
<sup>1</sup> Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils <sup>3</sup> :												
Histosol			Dark Surface	(\$7)				cm Muck (A10) (MLRA 147)				
	pipedon (A2)		Polyvalue Be	. ,	ce (S8) <b>(N</b>	/II RΔ 147		coast Prairie Redox (A16)				
Black Hi			Tolyvalde Be		. , .		0	(MLRA 147, 148)				
	en Sulfide (A4)		Loamy Gleye			147, 140)	P	iedmont Floodplain Soils (F19)				
	d Layers (A5)		Depleted Mat		, i <i>– )</i>		— '	(MLRA 136, 147)				
	ick (A10) <b>(LRR N)</b>		Redox Dark S		<del>-</del> 6)		V	ery Shallow Dark Surface (TF12)				
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)				
	ark Surface (A12)	` ,	Redox Depre				<del>_</del>	,				
	Mucky Mineral (S1) (L	RR N,	Iron-Mangane			LRR N,						
	A 147, 148)		MLRA 136									
Sandy G	Bleyed Matrix (S4)		Umbric Surfa	ce (F13)	(MLRA 13	36, 122)	<sup>3</sup> Ind	icators of hydrophytic vegetation and				
Sandy R	Redox (S5)		Piedmont Flo	odplain S	oils (F19)	(MLRA 14	<b>8)</b> we	tland hydrology must be present,				
Stripped	Matrix (S6)		Red Parent M	laterial (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> un	less disturbed or problematic.				
Restrictive I	Layer (if observed):											
Type:												
Depth (in	ches):						Hydric Soil	Present? Yes V No No				
Remarks:							1					

# **Wetland Photograph Page**

#### Wetland ID W-MM8-PFC



Photograph Direction North

Date: 08/25/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/18/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City	County: Pittsylvania		Sampling Date: 08/25/2015		
Applicant/Owner: MVP			,		Sampling Point: W-MM8 UPL		
Investigator(s): A. Grech, A	. Stott, M. Whitten	Sec	tion, Township, Range: N				
• ,,					Slope (%): 3-6%		
Subregion (LRR or MLRA): L					Datum: NAD 83		
Soil Map Unit Name: Chenne							
Are climatic / hydrologic condit							
· · · · · · ·		•			present? Yes No		
Are Vegetation, Soil							
			•	explain any answe	s, important features, etc.		
				Jiio, transcott	s, important reatures, etc.		
Hydrophytic Vegetation Prese			Is the Sampled Area				
Hydric Soil Present?	Yes Yes		within a Wetland?	Yes	No		
Wetland Hydrology Present? Remarks:	Yes	No					
HYDROLOGY							
Wetland Hydrology Indicate	ore:			Secondary Indica	etors (minimum of two required)		
Primary Indicators (minimum		ock all that apply)		Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)			
Surface Water (A1)	or one is required, che	_ True Aquatic Plants	(P14)		getated Concave Surface (B8)		
High Water Table (A2)	<del>-</del>	_ Hydrogen Sulfide C		Drainage Patterns (B10)			
Saturation (A3)	_			Moss Trim Lines (B16)			
Water Marks (B1)	_	Presence of Reduc	=	Dry-Season Water Table (C2)			
Sediment Deposits (B2)	_	_ Recent Iron Reduct	ion in Tilled Soils (C6)	Crayfish Burrows (C8)			
Drift Deposits (B3)	_	_ Thin Muck Surface		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	_ Other (Explain in R	emarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	(5-)			Geomorphic Position (D2)			
Inundation Visible on Aer	• • • •			Shallow Aquitard (D3)			
Water-Stained Leaves (E Aquatic Fauna (B13)	39)			Microtopographic Relief (D4) FAC-Neutral Test (D5)			
Field Observations:				I AO-Neulla	Trest (D3)		
Surface Water Present?	Yes No 🗸	Depth (inches):					
Water Table Present?		Depth (inches):					
Saturation Present?		Depth (inches):		Hvdrology Presei	nt? Yes No		
(includes capillary fringe)							
Describe Recorded Data (stre	am gauge, monitoring	g weil, aeriai pnotos, p	revious inspections), if ava	allable:			
Remarks:							

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-MM8 UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiee Stratum (Flot size)		Species?		Number of Dominant Species	0	
1. Pinus echinata	20		<u>UPL</u>	That Are OBL, FACW, or FAC:	2	(A)
2. Fagus grandifolia	10		FACU_	Total Number of Dominant		
3. Liriodendron tulipifera	10		FACU_	Species Across All Strata:	6	(B)
4						
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	33	(A/B)
6				That Ale OBL, FACW, of FAC.		(A/D)
				Prevalence Index worksheet:		
7	40	Tatal Car		Total % Cover of:	Multiply by:	
50% of total cover: 20		= Total Cov	_	OBL species x 1	=	
4=1	20% 01	total cover		FACW species x 2		
Sapinig/Situb Stratum (Flot size)	20		<b>540</b>	FAC species x 3		
1. Lindera benzoin	20		FAC			
2				FACU species x 4		
3				UPL species x 5		
4				Column Totals: (A)		(B)
5				Branch and Index D/A		
6				Prevalence Index = B/A =		_
7			·	Hydrophytic Vegetation Indicat		
		-		1 - Rapid Test for Hydrophyti	c Vegetation	
8				2 - Dominance Test is >50%		
9	~~			3 - Prevalence Index is ≤3.0 <sup>1</sup>		
50% () 10		= Total Cov		4 - Morphological Adaptation	s¹ (Provide sur	porting
50% of total cover:10	20% of	total cover	:4	data in Remarks or on a s	eparate sheet)	
Tierb otratum (1 lot size)	40			Problematic Hydrophytic Veg	etation <sup>1</sup> (Expla	in)
1. Amphicarpaea bracteata	40		F <u>AC</u>	<u> </u>	(2,1)	,
2. Polystichum acrostichoides	20		F <u>ACU</u>	1 Indicators of bydrio soil and water	and budralagu	must
3				<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pr		iliusi
4				Definitions of Four Vegetation S		
5				Deminions of Four Vegetation (	Juata.	
6				Tree - Woody plants, excluding v		
			·	more in diameter at breast height height.	(DBH), regard	less of
7				neight.		
8				Sapling/Shrub – Woody plants, e		
9				than 3 in. DBH and greater than o	or equal to 3.28	3 ft (1
10		-		m) tall.		
11				Herb - All herbaceous (non-wood	dy) plants, rega	ırdless
		= Total Cov		of size, and woody plants less that	ın 3.28 ft tall.	
50% of total cover: 30	20% of	total cover	: 12	Woody vine – All woody vines gr	eater than 3.28	R ft in
Woody Vine Stratum (Plot size: 15')				height.	04.01 11.411 0.20	,
1						
2						
3						
4						
5.				Hydrophytic Vegetation		
<u> </u>	_	= Total Cov		Present? Yes	No 🗸	
50% of total cover: 0		total cover	_			
		total cover				
Remarks: (Include photo numbers here or on a separate s	neet.)					

Sampling Point: W-MM8 UPL

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docun	nent the inc	dicator o	r confirm	the abse	ence of indicato	ors.)	
Depth	Matrix		Redo	k Features						
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	Textu		Remarks	
0-5"	10YR 4/4	100					SiL			
5-20"	10YR 5/4	100					GrSi	L		
			_							
							-	<del></del>		
¹Type: C=Co	oncentration, D=Depl	etion. RM=Re	educed Matrix. MS	S=Masked S	and Gra	ins.	<sup>2</sup> Locatio	n: PL=Pore Lini	ng. M=Matrix.	
Hydric Soil		00011, 1001—100	saacoa marix, me	-Madrida C	and Ore			ndicators for Pr		
Histosol			Dark Surface	(S7)				2 cm Muck (/		
	pipedon (A2)		Polyvalue Be		(S8) <b>(M</b>	LRA 147,	148)	Coast Prairie		
Black Hi			Thin Dark Su				_	(MLRA 14	, ,	
	n Sulfide (A4)		Loamy Gleye	. , .		, -,		Piedmont Flo		(F19)
	d Layers (A5)		Depleted Mat		,		_	 (MLRA 13		,
2 cm Mu	ick (A10) (LRR N)		Redox Dark S		)		_		Dark Surface	e (TF12)
Depleted	d Below Dark Surface	(A11)	Depleted Dar	k Surface (F	<del>-</del> 7)		_	Other (Expla	in in Remarks	s)
Thick Da	ark Surface (A12)		Redox Depre	ssions (F8)						
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangane		(F12) <b>(L</b>	.RR N,				
	A 147, 148)		MLRA 130					_		
	Sleyed Matrix (S4)		Umbric Surfa					<sup>3</sup> Indicators of h		-
	tedox (S5)		Piedmont Flo					wetland hydro		•
	Matrix (S6)		Red Parent M	1aterial (F21	) <b>(MLR</b>	127, 147	')	unless disturb	ed or problem	natic.
Restrictive I	_ayer (if observed):									
Type:			_							_
Depth (inc	ches):		<u> </u>				Hydric	Soil Present?	Yes	No
Remarks:							1			

Project/Site: MVP City/County: Pittsylvania Sampling Date: 06/14/2							
Applicant/Owner: MVP		State: VA	Sampling Point: W-Q2				
Investigator(s): A.Stott, A.G	rech, D.McCullo	ugh <sub>Sectio</sub>	n, Township, Range: N/				
Landform (hillslope, terrace, etc	c.): Valley bottom	Local reli			Slope (%): 0-3%		
Subregion (LRR or MLRA):         LRRP         Lat:         36.885034         Long:         -79.428453         Datum							
Soil Map Unit Name: Cecil sa			_				
Are climatic / hydrologic conditi	ions on the site typic	al for this time of year? Y	es No (	(If no, explain in Re	emarks.)		
Are Vegetation, Soil		•			resent? Yes No		
Are Vegetation, Soil				explain any answer			
_	-				, important features, etc.		
		, -	7 31				
Hydrophytic Vegetation Present?	ent? Yes		Is the Sampled Area				
Wetland Hydrology Present?	· · · · · · · · · · · · · · · · · · ·	No No	within a Wetland?	Yes	No		
Remarks:							
Cowardin Code: PFO H	GM: Riverine V	VT: RPWWD					
Information listed on this of wetland hydrology, hy Supplement delineation	drophytic vegeta	s the data collected in ation, and hydric soils	n 2015. The wetland s was confirmed usin	d was revisited ng the USACE	on 11/19/2019. Presence EMP Regional		
HYDROLOGY							
Wetland Hydrology Indicato	ors:			·	tors (minimum of two required)		
Primary Indicators (minimum	of one is required; ch	heck all that apply)	<u>,                                    </u>	Surface Soil Cracks (B6)			
Surface Water (A1)		True Aquatic Plants (I	•	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		Hydrogen Sulfide Odd		Drainage Pat	` '		
Saturation (A3)		Oxidized Rhizosphere	= : : :	Moss Trim Li			
Water Marks (B1)		Presence of Reduced		Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction		Crayfish Burrows (C8)			
Drift Deposits (B3)		Thin Muck Surface (C			sible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	-	Other (Explain in Ren	narks)		ressed Plants (D1)		
Iron Deposits (B5)	······································			Geomorphic Position (D2)			
Inundation Visible on Aer				Shallow Aqui			
<ul><li>Water-Stained Leaves (E</li><li>Aquatic Fauna (B13)</li></ul>	19)			Microtopographic Relief (D4) ✓ FAC-Neutral Test (D5)			
			1	TAC-Neutral	Test (D3)		
Field Observations:	Vac V No	Depth (inches):	3"				
Surface Water Present?		Ворит (шолоо)	<u>3</u> 1"				
Water Table Present?		Deptil (inches)	·				
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	Wetland H	lydrology Presen	t? Yes <u>V</u> No		
Describe Recorded Data (stre	eam gauge, monitorii	ng well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks: Connects to S-Q3							
Connects to 3-Q3							

Sampling Point: W-Q2

20'	Absolute		Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species _	
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC:5	(A)
2. Platanus occidentalis	30		<b>FACW</b>	Total Number of Descious	
3. Fraxinus pennsylvanica	10		FACW	Total Number of Dominant Species Across All Strata:  5	(B)
4				openes / Noross / III Otrata.	(5)
				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC:100	(A/B)
6				Prevalence Index worksheet:	
7					
		= Total Co		Total % Cover of: Multiply by:	
50% of total cover: 35	20% of	total cover	r: <u>    14                                </u>	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15')				FACW species x 2 =	
1 Rosa multiflora	5	<b>/</b>	FACU	FAC species x 3 =	
		-		FACU species x 4 =	
2				UPL species x 5 =	
3					<b>(D)</b>
4				Column Totals: (A)	(B)
5		-		Dravelance Index - P/A -	
6				Prevalence Index = B/A =	
				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
	5	= Total Co	ver	4 - Morphological Adaptations <sup>1</sup> (Provide suppo	ortina
50% of total cover: 2.5	20% of	total cover	r: <u> </u>		orung
Herb Stratum (Plot size: 5'				data in Remarks or on a separate sheet)	
1. Microstegium vimineum	50	<b>/</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain	)
2. Leersia oryzoides	30				
	10		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology mu	ust
3. Impatiens capensis			FACW_	be present, unless disturbed or problematic.	
4				Definitions of Four Vegetation Strata:	
5					
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cr	
				more in diameter at breast height (DBH), regardles	ss of
7				height.	
8				Sapling/Shrub – Woody plants, excluding vines, I	ess
9				than 3 in. DBH and greater than or equal to 3.28 ft	
10				m) tall.	
11.				<b>Herb</b> – All herbaceous (non-woody) plants, regard	llooo
	90	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.	11622
50% of total cover: 45		total cove			
Woody Vine Stratum (Plot size: 15' )	2070 01	10101 00101		<b>Woody vine</b> – All woody vines greater than 3.28 ft	t in
				height.	
1					
2					
3					
4.					
5				Hydrophytic Vegetation	
<u> </u>	0	Total Ca		Present? Yes No	
500/ of total annual 0		= Total Co	_		
50% of total cover:0		total cove	r:		
Remarks: (Include photo numbers here or on a separate s	sheet.)				

SOIL Sampling Point: W-Q2

Profile Desc	ription: (Describe t	o the dept	h needed to docur	nent the i	ndicator	or confirn	n the absence	e of indicators.)
Depth	Matrix				,			
(inches)	Color (moist)	<u>%</u>	Color (moist)	x Feature %	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-3"	10YR 5/2	80	7.5YR 4/6	20	С	M	SiL	
3-8"	10YR 5/2	70	7.5YR 4/4	30	С	M	SiL	
8-20"	10YR 5/3	75	7.5YR 4/6	25	C	M	SCL	
					<u> </u>	171		
					-			_
<del> </del>								
	oncentration, D=Depl	etion, RM=	Reduced Matrix, MS	S=Masked	Sand Gr	ains.		PL=Pore Lining, M=Matrix.
Hydric Soil I								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface		(00) (1			2 cm Muck (A10) (MLRA 147)
	oipedon (A2)		Polyvalue Be				148)	Coast Prairie Redox (A16)
Black Hi	en Sulfide (A4)		Thin Dark Su Loamy Gleye			47, 140)		(MLRA 147, 148) Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		1 2)		_	(MLRA 136, 147)
	ick (A10) <b>(LRR N)</b>		Redox Dark		-6)			Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar	,	,			Other (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depre	essions (F	8)			
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	<b>147, 148)</b>		MLRA 13				٦.	
	Sleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
-	ledox (S5) Matrix (S6)		Piedmont Floor Red Parent N					vetland hydrology must be present, inless disturbed or problematic.
	_ayer (if observed):		Neu Faleili i	nateriai (i	ZI) (WLK	A 121, 14	1) 0	inless disturbed of problematic.
Type:	-ayor ( oboo. vou).							
Depth (inc	chas).						Hydric Sc	oil Present? Yes 🗸 No
							Tiyane oc	miriesent: resno
Remarks:								



Photograph Direction East

Date: 06/14/2015

Comments: 2015 wetland delineation.



Photograph Direction NNE

Date: 11/19/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		Sampling Date: 06/14/2015						
Applicant/Owner: MVP	, -		Sampling Point: W-Q2 UPL					
Investigator(s): A.Stott, A.Grech, D.M.	/IcCullough	1						
Landform (hillslope, terrace, etc.): Shoul						Slope (%): 2-4%		
Subregion (LRR or MLRA): LRRP						Datum: NAD 83		
Soil Map Unit Name: Chenneby-Toccoa c								
Are climatic / hydrologic conditions on the	site typical fo	or this tim	e of year?	Yes No	(If no, explain in F	Remarks.)		
Are Vegetation, Soil, or Hy	/drology	signif	ficantly distu	ırbed? Are "Norma	al Circumstances" ı	present? Yes V No		
Are Vegetation, Soil, or Hy								
SUMMARY OF FINDINGS – Atta								
Hydrophytia Vagatatian Procent?	Voc	No	<u> </u>		·	<u> </u>		
Hydrophytic Vegetation Present? Hydric Soil Present?	Yes Yes		<u></u>	Is the Sampled Area		•/		
Wetland Hydrology Present?	Yes		<u> </u>	within a Wetland?	Yes	No		
Remarks:								
Upland								
HYDROLOGY								
Wetland Hydrology Indicators:					Secondary Indica	ators (minimum of two required)		
Primary Indicators (minimum of one is re	quired; check	k all that	apply)		Surface Soil	Cracks (B6)		
Surface Water (A1)			uatic Plants		Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)		-	n Sulfide O		Drainage Pa			
Saturation (A3)				res on Living Roots (C3)				
Water Marks (B1)	·		e of Reduce	, ,	Dry-Season Water Table (C2)			
Sediment Deposits (B2)				on in Tilled Soils (C6)				
Drift Deposits (B3)			ck Surface (		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)	_	Other (E	xplain in Re	emarks)	Stunted or Stressed Plants (D1)			
Iron Deposits (B5)	· (DZ)				Geomorphic Position (D2)			
Inundation Visible on Aerial Imagery	(B7)				Shallow Aquitard (D3)			
Water-Stained Leaves (B9) Aquatic Fauna (B13)				Microtopographic Relief (D4) FAC-Neutral Test (D5)				
Field Observations:					FAC-Neutral	r rest (D3)		
	No	Denth (	inches).					
	No V							
	_ No				Hydrology Presei	nt? Yes No 🗸		
(includes capillary fringe)		• •	,			III: 165 NO		
Describe Recorded Data (stream gauge,	monitoring w	vell, aeria	al photos, pr	evious inspections), if av	ailable:			
Remarks:								

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-Q2 UPL

Trac Stratum (Diet einer 30'	Absolute	Dominant		Dominance Test worksheet:		
Tree Stratum (Plot size: 30' )  1 Quercus rubra	% Cover 20	Species? ✓	FACU	Number of Dominant Species	2	
2 Liriodendron tulipifera	20	~		That Are OBL, FACW, or FAC: _		(A)
<del></del>			FACU_	Total Number of Dominant	_	
3				Species Across All Strata:	5	(B)
4				Percent of Dominant Species		
5				That Are OBL, FACW, or FAC:	40%	(A/B)
6				Prevalence Index worksheet:		
7					Marile a barbara	
		= Total Cov			Multiply by:	
50% of total cover: 20	20% of	total cover	:8	OBL species x 1		
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2	=	_
1. Carpinus caroliniana	10		FAC	FAC species x 3		
2				FACU species x 4	=	_
3				UPL species x 5	=	
4.				Column Totals: (A)		(B)
5			·			
				Prevalence Index = B/A = _		_
6				Hydrophytic Vegetation Indicate	rs:	
7				1 - Rapid Test for Hydrophytic	Vegetation	
8				2 - Dominance Test is >50%		
9			. ——	3 - Prevalence Index is ≤3.0 <sup>1</sup>		
_		= Total Cov		4 - Morphological Adaptations	1 (Provide sur	oportina
50% of total cover:5	20% of	total cover	:2	data in Remarks or on a se		-
Herb Stratum (Plot size: 5')				Problematic Hydrophytic Vege	•	
1. Amphicarpaea bracteata	30		F <u>AC</u>	Froblematic Hydrophytic vege	itation (Expid	all 1 <i>)</i>
2. Polystichum acrostichoides	20		FACU_	1		
3. Dichanthelium clandestinum	5		FAC	<sup>1</sup> Indicators of hydric soil and wetla be present, unless disturbed or pro		must
4				Definitions of Four Vegetation S		
5				Definitions of Four Vegetation 5	trata:	
6			·	Tree - Woody plants, excluding vi		
				more in diameter at breast height (	DBH), regard	lless of
7				height.		
8				Sapling/Shrub - Woody plants, e.		
9				than 3 in. DBH and greater than or	equal to 3.28	8 ft (1
10			<del></del>	m) tall.		
11				Herb - All herbaceous (non-wood	y) plants, rega	ardless
07.5		= Total Cov		of size, and woody plants less than	1 3.28 ft tall.	
50% of total cover: <u>27.5</u>	20% of	total cover	:11	Woody vine – All woody vines gre	eater than 3.2	8 ft in
Woody Vine Stratum (Plot size: 15' )				height.		
1						
2						
3						
4				Hardra whatia		
5.				Hydrophytic Vegetation		
	0 :	= Total Cov	/er	Present? Yes	No 🗸	
50% of total cover: 0		total cover	_			
Remarks: (Include photo numbers here or on a separate si						
Tremaine. (morage photo humbers here of on a separate si	11001.)					

SOIL Sampling Point: W-Q2 UPL

Profile Des	cription: (Describe t	o the depth	needed to docur	ment the in	ndicator	or confirm	the ab	sence of indicat	ors.)	
Depth	Matrix			x Features	<u> </u>					
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>		ture	Remarl	KS
0-20"	7.5YR 4/4	100					S	iL		
-	<del>-</del>		-				-			_
	<del>-</del>									_
-										
	-									
	<del>-</del>		-							_
	·						-			
	<del></del>									
	Concentration, D=Depl	etion, RM=R	educed Matrix, M	S=Masked	Sand Gra	ins.	<sup>2</sup> Loca	tion: PL=Pore Lir		
•	Indicators:							Indicators for F		-
Histoso			Dark Surface					2 cm Muck		
	pipedon (A2)		Polyvalue Be		. , .		148)	Coast Prairi		16)
	Histic (A3)		Thin Dark Su			47, 148)		(MLRA 1		" (540)
	en Sulfide (A4)		Loamy Gleye		-2)			Piedmont F		oils (F19)
	ed Layers (A5)		Depleted Ma		0)			(MLRA 1		(TE40)
	luck (A10) <b>(LRR N)</b> ed Below Dark Surface	. (111)	Redox Dark Depleted Da					Very Shallo Other (Expl		
	Park Surface (A12)	(A11)	Redox Depre					Other (Expi	alli III Kellia	iks)
	Mucky Mineral (S1) <b>(L</b>	RR N	Iron-Mangan			RR N				
	A 147, 148)	,	MLRA 13		,5 (i iz) <b>(i</b>	-1111 14,				
	Gleyed Matrix (S4)		Umbric Surfa	•	MLRA 13	6. 122)		<sup>3</sup> Indicators of I	nvdrophytic '	vegetation and
	Redox (S5)		Piedmont Flo				8)	wetland hydr		
	d Matrix (S6)		Red Parent N					unless distur		
	Layer (if observed):						Í		<u> </u>	
Type:										
	nches):						Hydi	ric Soil Present?	Yes	No 🗸
Remarks:	101100).						- i yu	TO CONTITUCION.	100	
Remarks.										

Project/Site: MVP		City/County: Pittsylvania Sampling Date: 06/14/20							
Applicant/Owner: MVP		State: VA Sampling Point: W-Q1							
Investigator(s): A.Stott, A.Grech, D.McCullough Section, Township, Range: N/A									
<u> </u>					Slope (%): 0-3%				
Subregion (LRR or MLRA): LI	RRP La	<sub>tt:</sub> 36.884195			Datum: NAD 83				
Soil Map Unit Name: Chenneb					· · · · · · · · · · · · · · · · · · ·				
Are climatic / hydrologic conditi	ions on the site typical	for this time of year? Y	es No (	(If no, explain in Re	emarks.)				
Are Vegetation, Soil		•		•	resent? Yes No				
Are Vegetation, Soil				explain any answer					
-	-				, important features, etc.				
		·			, ,				
Hydrophytic Vegetation Present?	Yes Yes		Is the Sampled Area	./					
Wetland Hydrology Present?		No	within a Wetland?	Yes	No				
Remarks:									
Cowardin Code: PEM F	IGM: Depressiona	I WI: RPWWD							
Information listed on this of wetland hydrology, hy Supplement delineation	/drophytic vegetati	the data collected in on, and hydric soils	n 2015. The wetland s was confirmed usin	d was revisited ng the USACE	on 11/19/2019. Presence EMP Regional				
HYDROLOGY									
Wetland Hydrology Indicato	ors:			Secondary Indica	tors (minimum of two required)				
Primary Indicators (minimum	of one is required; che	ck all that apply)		Surface Soil (	Cracks (B6)				
Surface Water (A1)	_	_ True Aquatic Plants (	B14)	Sparsely Veg	etated Concave Surface (B8)				
High Water Table (A2)		_ Hydrogen Sulfide Odd		Drainage Pat	terns (B10)				
Saturation (A3)			es on Living Roots (C3)	Moss Trim Li	nes (B16)				
Water Marks (B1)	_	Presence of Reduced	I Iron (C4)	Dry-Season \	Water Table (C2)				
Sediment Deposits (B2)	_	Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Burr	ows (C8)				
Drift Deposits (B3)	_	_ Thin Muck Surface (C			sible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Ren	narks)	Stunted or Stressed Plants (D1)					
Iron Deposits (B5)				Geomorphic Position (D2)					
Inundation Visible on Aer				Shallow Aquitard (D3)					
Water-Stained Leaves (B	<b>i9</b> )			Microtopographic Relief (D4)					
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)				
Field Observations:			4 !!						
Surface Water Present?	Yes No No		<u>                                     </u>						
Water Table Present?	Yes No	Doptii (inches)	0"		_				
Saturation Present? (includes capillary fringe)	Yes No	Depth (inches):	O" Wetland H	lydrology Presen	t? Yes <u>/</u> No				
Describe Recorded Data (stre	eam gauge, monitoring	well, aerial photos, pre-	vious inspections), if ava	ilable:					
Remarks:									

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-Q1

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:)	% Cover	Species?	<u>Status</u>	Number of Dominant Species
1				That Are OBL, FACW, or FAC:5 (A)
2				Total Number of Dominant
3				Species Across All Strata:5 (B)
4				Dancest of Descious Consider
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100% (A/B)
6				(VD)
7				Prevalence Index worksheet:
	0	= Total Co	ver	Total % Cover of: Multiply by:
50% of total cover: 0	20% of			OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )	<del></del>			FACW species x 2 =
1				FAC species x 3 =
				FACU species x 4 =
2		-	<del></del>	UPL species x 5 =
3				Column Totals: (A) (B)
4				(7)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0¹
	0	= Total Co	ver	4 - Morphological Adaptations¹ (Provide supporting
50% of total cover: 0	20% of	total cover	: <u> </u>	
Herb Stratum (Plot size: 5')				data in Remarks or on a separate sheet)
1. Scirpus atrovirens	30	~	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Carex vulpinoidea	30	~	OBL	
3. Juncus tenuis	20	~	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
4. Microstegium vimineum	20		FAC	be present, unless disturbed or problematic.
· ·			17.0	Definitions of Four Vegetation Strata:
5		-		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8			<del></del>	Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	100	= Total Co	ver	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 50	20% of	total cover	: <u>20</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Toxicodendron radicans	10		FAC	
2				
3				
4.				
5.	-	-		Hydrophytic
5	10	Tatal Car		Vegetation Present? Yes   ✓ No
50% of total cover: 5		= Total Cover	_	
		total cover	· <u></u>	
Remarks: (Include photo numbers here or on a separate s	neet.)			

Sampling Point: W-Q1

0-6"         10YR 4/1         90         7.5YR 3/4         10         C         M         S           6-12"         10YR 3/1         97         10YR 4/2         3         C         M         SiL	narks usal: CF
6-12" 10YR 3/1 97 10YR 4/2 3 C M SiL	ısal: CF
	ısal: CF
12+" Refu	ısal: CF
France Construction D. Doubling DM. Doubling Market MC Market Cond. Online 21 and 50 District DM. Doubling M. N.	A-1-2-
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  2 Location: PL=Pore Lining, M=N ydric Soil Indicators: Indicators for Problema	
Histosol (A1) Dark Surface (S7) 2 cm Muck (A10) <b>(M</b> 1	•
Histosof (A1) Daik Surface (S7) 2 cm Muck (A10) (Min	
Histic Epipedon (A2)	(, , , , )
Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Piedmont Floodplain	Soils (F19)
Stratified Layers (A5) Depleted Matrix (F3) (MLRA 136, 147)	,
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark S	
Depleted Below Dark Surface (A11)	marks)
Thick Dark Surface (A12) Redox Depressions (F8)	
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese Masses (F12) (LRR N, NI PA 132)	
MLRA 147, 148) MLRA 136)  Sandy Gleyed Matrix (S4) — Umbric Surface (F13) (MLRA 136, 122)   *Indicators of hydrophytics of hydrophytics in the control of th	tic vegetation and
✓ Sandy Redox (S5) — Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology mu	
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or pro	
estrictive Layer (if observed):	
Type: Refusal: Coarse Fragments	
Depth (inches): 12" Hydric Soil Present? Yes _	✓ No
emarks:	

SOIL



Photograph Direction South

Date: 06/14/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/19/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		City/County: Pittsylvania Sampling Date: 0						
Applicant/Owner: MVP				_ Sampling Point: W-Q1 UPL				
Investigator(s): A.Stott, A.Grech, D.McC	ullough				_			
Landform (hillslope, terrace, etc.): Shoulder					Slope (%): 2-4%			
Subregion (LRR or MLRA): LRRP					Datum: NAD 83			
Soil Map Unit Name: Chenneby-Toccoa								
Are climatic / hydrologic conditions on the site	typical for this time	of year? Yes	No (I	If no, explain in Re	emarks.)			
Are Vegetation, Soil, or Hydrol		· ·						
Are Vegetation, Soil, or Hydrol								
SUMMARY OF FINDINGS – Attach								
		,						
	s No s No		Sampled Area					
	s No	within	a Wetland?	Yes	No			
Remarks:	<u> </u>							
HYDROLOGY								
Wetland Hydrology Indicators:			•		ors (minimum of two required)			
Primary Indicators (minimum of one is require		• • • •		Surface Soil Cracks (B6)				
Surface Water (A1)		atic Plants (B14)	-	Sparsely Vegetated Concave Surface (B8)				
High Water Table (A2)		Sulfide Odor (C1)	in a Doote (CO)	Drainage Patt				
Saturation (A3) Water Marks (B1)		Rhizospheres on Liver of Reduced Iron (C	-					
Sediment Deposits (B2)		on Reduction in Tille	,	Dry-Season Water Table (C2) C6) Crayfish Burrows (C8)				
Drift Deposits (B3)		k Surface (C7)			sible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		plain in Remarks)	•	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		,		Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7	)			Shallow Aquitard (D3)				
Water-Stained Leaves (B9)				Microtopographic Relief (D4)				
Aquatic Fauna (B13)				FAC-Neutral	Test (D5)			
Field Observations:								
	lo 🖊 Depth (ir							
	lo V Depth (ir							
Saturation Present? Yes N (includes capillary fringe)	lo <u> &lt;                                   </u>	nches):	Wetland H	ydrology Present	t? Yes No			
Describe Recorded Data (stream gauge, mor	nitoring well, aerial	photos, previous in	spections), if avail	lable:				
Demonto								
Remarks:								

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-Q1 UPL

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1. Pinus strobus	10	<b>✓</b>	FACU	That Are OBL, FACW, or FAC: 0 (A)
Pinus virginiana	10	~	UPL	(,,
			<u> </u>	Total Number of Dominant Species Across All Strata: 4 (B)
3				Species Across All Strata: 4 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:0% (A/B)
6				
7				Prevalence Index worksheet:
	20	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: 10	20% of	total cover:	4	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1. Rosa multiflora	10	~	FACU	FAC species x 3 =
·· <del>·</del>			1 700	FACU species x 4 =
2				
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
	10	= Total Cov	er	
50% of total cover: 5		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Rubus occidentalis	15	<b>✓</b>	UPL	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
			UPL	
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7		-		height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10.				m) tall.
11				
	15	Tatal Cau		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
500/ of total course. 7.5		= Total Cov	_	of size, and woody plants less than 3.26 it tall.
50% of total cover: 7.5	20% 01	total cover:		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:)				height.
1				
2				
3				
_				
		-		Hydrophytic
5				Vegetation Present? Yes No ✓
		= Total Cov	_	Tresent: TesNO
50% of total cover:0	20% of	total cover:	0	
Remarks: (Include photo numbers here or on a separate sl	neet.)			

SOIL Sampling Point: W-Q1 UPL

Profile Description: (Describe to the dept	h needed to document the indicator or confirm	the absence of indicators.)	
Depth Matrix	Redox Features		
(inches) Color (moist) %	Color (moist) % Type <sup>1</sup> Loc <sup>2</sup>	Texture Remarks	
0-4" 10YR 4/3 100		SL	
4-20" 10YR 5/6 100		SL	
			— I
1Tune: C. Concentration D. Donletion DM	Dadward Matrix MC Macked Cond Crains	21 acation, DI Dora Lining M Matrix	
<sup>1</sup> Type: C=Concentration, D=Depletion, RM= <b>Hydric Soil Indicators:</b>	Reduced Matrix, MS=Masked Sand Grains.	<sup>2</sup> Location: PL=Pore Lining, M=Matrix.  Indicators for Problematic Hydric Soils	3.
•	Doub Conform (C7)		, -
Histosol (A1) Histic Epipedon (A2)	<ul><li>Dark Surface (S7)</li><li>Polyvalue Below Surface (S8) (MLRA 147,</li></ul>	2 cm Muck (A10) (MLRA 147) 148) Coast Prairie Redox (A16)	
Black Histic (A3)	Polyvaide Below Surface (So) (MLRA 147, 148)	(MLRA 147, 148)	
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2)	Piedmont Floodplain Soils (F19)	
Stratified Layers (A5)	Depleted Matrix (F3)	(MLRA 136, 147)	
2 cm Muck (A10) (LRR N)	Redox Dark Surface (F6)	Very Shallow Dark Surface (TF12)	
Depleted Below Dark Surface (A11)	Depleted Dark Surface (F7)	Other (Explain in Remarks)	
Thick Dark Surface (A12)	Redox Depressions (F8)		
Sandy Mucky Mineral (S1) (LRR N,	Iron-Manganese Masses (F12) (LRR N,		
MLRA 147, 148)	MLRA 136)		
Sandy Gleyed Matrix (S4)	Umbric Surface (F13) (MLRA 136, 122)	<sup>3</sup> Indicators of hydrophytic vegetation an	d
Sandy Redox (S5)	Piedmont Floodplain Soils (F19) (MLRA 148	wetland hydrology must be present,	
Stripped Matrix (S6)	Red Parent Material (F21) (MLRA 127, 147)	unless disturbed or problematic.	
Restrictive Layer (if observed):			
Type:			
Depth (inches):		Hydric Soil Present? Yes No	_
Remarks:			

Project/Site: MVP			City/C	ounty: Pittsylvania		Sampling Date: 04/04/2015		
Applicant/Owner: MVP		Sampling Point: W-G2						
Investigator(s): TEAM G Section, Township, Range: N/A								
• ,,						Slope (%): 0-3%		
Subregion (LRR or MLRA): L				Long:79		Datum: NAD 83		
Soil Map Unit Name: Cecil sa								
•						·		
Are climatic / hydrologic condit			-					
Are Vegetation, Soil	, or Hyd	rology	significantly distur	bed? Are "Normal	Circumstances" p	present? Yes No		
Are Vegetation, Soil	, or Hyd	rology	naturally problema	atic? (If needed, e	explain any answe	rs in Remarks.)		
SUMMARY OF FINDING	GS – Atta	ch site r	nap showing sam	pling point location	ns, transects	, important features, etc.		
Hydrophytic Vegetation Prese	n+2	Yes 🗸	No					
Hydric Soil Present?		Yes 🗸	No No	Is the Sampled Area				
Wetland Hydrology Present?		Yes V	No	within a Wetland?	Yes	No		
Remarks:								
Cowardin Code: PEM F	IGM: Rive	rine Wi	: RPWWD					
Information listed on this of wetland hydrology, hy Supplement delineation	drophytic <sup>·</sup>	vegetation	he data collected in on, and hydric soils	n 2015. The wetland s was confirmed usi	d was revisited ng the USACE	on 11/19/2019. Presence EMP Regional		
HYDROLOGY								
Wetland Hydrology Indicato					Secondary Indica	ators (minimum of two required)		
, ,,		uiradı abad	ok all that apply			<u> </u>		
Primary Indicators (minimum	or one is req			D4.4)	Surface Soil	` '		
Surface Water (A1)			True Aquatic Plants (			getated Concave Surface (B8)		
✓ High Water Table (A2)       Hydrogen Sulfide Odor (C1)       Drainage Patterns (B10)         ✓ Saturation (A3)       Oxidized Rhizospheres on Living Roots (C3)       Moss Trim Lines (B16)								
Saturation (A3)			•	• , ,	Moss Trim Li	` ′		
Water Marks (B1)			Presence of Reduced Recent Iron Reduction		Crayfish Bur	Water Table (C2)		
Sediment Deposits (B2) Drift Deposits (B3)		_			,	` ′		
Algal Mat or Crust (B4)		_	Thin Muck Surface (C Other (Explain in Ren		Saturation Visible on Aerial Imagery (C9) Stunted or Stressed Plants (D1)			
Iron Deposits (B5)			Other (Explain in Neil	iaiks)		` '		
Inundation Visible on Ae	rial Imagery (	R7)			<ul><li>✓ Geomorphic Position (D2)</li><li>✓ Shallow Aquitard (D3)</li></ul>			
Water-Stained Leaves (E		D1)			Microtopographic Relief (D4)			
Aquatic Fauna (B13)	,				FAC-Neutral	. , ,		
Field Observations:						. 551 (25)		
Surface Water Present?	Yes 🗸	Nο	_ Depth (inches):	7"				
Water Table Present?				0"				
Saturation Present?				0 Wetland H	lydrology Preser	nt? Yes ✔ No		
(includes capillary fringe)						100		
Describe Recorded Data (stre	am gauge, n	nonitoring	well, aerial photos, pre	vious inspections), if ava	ilable:			
Remarks:								

Sampling Point: W-G2

	Absolute	Dominant	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species _	
1.				That Are OBL, FACW, or FAC: 5	(A)
2		-			_ ( /
		-		Total Number of Dominant Species Across All Strata: 5	<b>(D)</b>
3	-			Species Across All Strata: 5	_ (B)
4				Percent of Dominant Species	
5				That Are OBL, FACW, or FAC: 100	_ (A/B)
6				December of the december of	
7				Prevalence Index worksheet:	
	0	= Total Cov	er	Total % Cover of: Multiply by:	
50% of total cover:0		total cover:	_	OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1. Lindera benzoin	10	<b>~</b>	FAC	FAC species x 3 =	
2. Acer rubrum	10	<u> </u>		FACU species x 4 =	
			FAC		
3					
4				Column Totals: (A)	(B)
5				Prevalence Index = B/A =	
6.					
7				Hydrophytic Vegetation Indicators:	
		-		1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>	
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide so	pporting
50% of total cover: 10	20% of	total cover:	. 4	data in Remarks or on a separate shee	
Herb Stratum (Plot size: 5' )				1	,
1. Juncus effusus	25		F <u>ACW</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	ain)
2. Microstegium vimineum	25	<b>✓</b>	FACW_		
3. Carex lurida	20	~	OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology	must
4. Impatiens capensis	10			be present, unless disturbed or problematic.	
5. Dichanthelium clandestinum	10		FACW_	Definitions of Four Vegetation Strata:	
			FAC	Tree – Woody plants, excluding vines, 3 in. (7.	6 cm) or
6. Eupatorium perfoliatum	5		F <u>ACW</u>	more in diameter at breast height (DBH), regar	
7. Carex emoryi	5		OBL	height.	
8. Ludwigia alternifolia	5		FACW_		
9.				Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than or equal to 3.3	
10.				m) tall.	.0 11 (1
10				, and the second	
11	105			Herb – All herbaceous (non-woody) plants, rec	ardless
50.5		= Total Cov		of size, and woody plants less than 3.28 ft tall.	
50% of total cover: <u>52.5</u>	<u> </u>	total cover:		Woody vine – All woody vines greater than 3.	28 ft in
Woody Vine Stratum (Plot size:15')				height.	
1					
2					
3					
4					
		-		Hydrophytic	
5	_			Vegetation Present?  Yes   ✓ No   ✓ No   ✓ No   ✓ No   ✓ No  ✓ No   ✓ No    No   No	
		= Total Cov	_	110301111 1103 110	ı.
50% of total cover: 0		total cover:			
Remarks: (Include photo numbers here or on a separate st	neet.)				

Sampling Point: W-G2

SOIL

Profile Desc	ription: (Describe to	o the depth	n needed to docun	nent the in	dicator o	or confirm	the absenc	e of indicators.)
Depth	Matrix		Redox	r Features				
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10"	Gley1 5/10Y	60					SCL	
	2.5Y 4/2	40					SCL	
<u> </u>								
·								
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion, RM=F	Reduced Matrix, MS	=Masked	Sand Gra	ins.		PL=Pore Lining, M=Matrix.
Hydric Soil					<del></del>			cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		e (S8) <b>(M</b>	LRA 147,		Coast Prairie Redox (A16)
Black Hi	. , ,		Thin Dark Su		. , .		- <del>-</del>	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleye	d Matrix (F	2)	-		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Mat				_	(MLRA 136, 147)
2 cm Mu	ick (A10) (LRR N)		Redox Dark S	Surface (F6	6)		_	Very Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dar					Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b> l	RR N,	Iron-Mangane		s (F12) <b>(L</b>	RR N,		
	\ 147, 148)		MLRA 136				•	
-	Gleyed Matrix (S4)		Umbric Surfa					ndicators of hydrophytic vegetation and
-	ledox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent M	laterial (F2	(1) <b>(MLR</b>	A 127, 147	<b>')</b> u	inless disturbed or problematic.
	_ayer (if observed):							
Туре: <u>No</u>	one							
Depth (inc	ches):						Hydric So	oil Present? Yes <u>✓</u> No
Remarks:								



Photograph Direction SE

Date: 04/04/2015

Comments: 2015 wetland delineation.



Photograph Direction SE

Date: 11/19/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/Co	<sub>unty:</sub> Pittsylvania		Sampling Date: 04/04/2015			
Applicant/Owner: MVP		Sampling Point: W-G2 UP					
	Section			_			
Landform (hillslope, terrace, etc.): HILLSLOP		·		Slone (%): 3-7%			
Subregion (LRR or MLRA): LRRP							
Soil Map Unit Name: Cecil sandy clay loan							
•			<del></del>				
Are climatic / hydrologic conditions on the site ty							
Are Vegetation, Soil, or Hydrolog			ircumstances" p	resent? Yes No			
Are Vegetation, Soil, or Hydrolog	y naturally problemat	ic? (If needed, exp	olain any answei	rs in Remarks.)			
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point location	s, transects	, important features, etc.			
Hydrophytic Vegetation Present? Yes							
	No.	Is the Sampled Area		🗸			
Wetland Hydrology Present? Yes	No	within a Wetland?	Yes	No <del>-</del>			
Remarks:							
Upland							
041015 mayod (A graph C nyan)							
041915- moved (A.grech,S.ryan)							
HADBOLOCA							
HYDROLOGY  Wetland Hydrology Indicators:		9	ocondary Indica	tors (minimum of two required)			
Primary Indicators (minimum of one is required	· check all that apply)	_	Surface Soil	_			
Surface Water (A1)	True Aquatic Plants (B		<ul><li>Sparsely Vegetated Concave Surface (B8)</li><li>Drainage Patterns (B10)</li></ul>				
High Water Table (A2)	Hydrogen Sulfide Odo						
Saturation (A3)	Oxidized Rhizosphere						
Water Marks (B1)	Presence of Reduced		Dry-Season Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Burr				
Drift Deposits (B3)	Thin Muck Surface (C		Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Rem		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		_	Geomorphic Position (D2)				
Inundation Visible on Aerial Imagery (B7)		_	Shallow Aquitard (D3)				
Water-Stained Leaves (B9)		<del>-</del>	Microtopographic Relief (D4)				
Aquatic Fauna (B13)		_	FAC-Neutral	Test (D5)			
Field Observations:							
Surface Water Present? Yes No	Depth (inches):						
	Depth (inches):						
Saturation Present? Yes No (includes capillary fringe)	Depth (inches):	Wetland Hy	drology Presen	t? Yes No			
Describe Recorded Data (stream gauge, monit	oring well, aerial photos, prev	ious inspections), if availa	ıble:				
Remarks:							
Upland point							

Sampling Point: W-G2 UP

Troo Stratum (Plot size: 30'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tiee Stratum (Flot Size)		Species?		Number of Dominant Species
1. Liriodendron tulipifera	35		<u>FACU</u>	That Are OBL, FACW, or FAC:0 (A)
2. Fagus grandifolia	10		FACU_	Total Number of Deminent
3. Acer rubrum	10		FAC	Total Number of Dominant Species Across All Strata:6 (B)
4.				(2)
				Percent of Dominant Species That Are OBL FACW or FAC:  0 (A/B)
5				That Are OBL, FACW, or FAC: (A/B)
6				Prevalence Index worksheet:
7				Total % Cover of: Multiply by:
		= Total Cov		
50% of total cover: <u>27.5</u>	20% of	total cover:	11	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1. Oxydendrum arboreum	10	<b>✓</b>	FACU_	FAC species x 3 =
2. Quercus alba	10	<b>✓</b>	FACU_	FACU species x 4 =
3				UPL species x 5 =
_				Column Totals: (A) (B)
				( , ( , ( , (
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9.				
	20	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:10				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )		1010. 0070		data in Remarks or on a separate sheet)
1. Quercus rubra	15	~	FACU	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
**	15			
2. Quercus alba			F <u>ACU</u>	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				John Marie St. Four Pogetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	30 .	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 15		total cover:		
Woody Vine Stratum (Plot size: 15')	_			<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 Smilax routundifolia	15	<b>/</b>	FACU	height.
·· <del>·</del>			IACO	
2				
3				
4				Hydrophytic
5				Vegetation
	15 .	= Total Cov	er	Present? Yes No
50% of total cover: 7.5		total cover:	_	
Remarks: (Include photo numbers here or on a separate s				
Tremaine. (morade priote numbers here of on a separate s	11001.)			

Sampling Point: W-G2 UP

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	ent the ir	ndicator o	or confirm	the absence	of indicate	ors.)		
Depth	Matrix		Redox	c Features	<u> </u>						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remark	(S	
0-4"	10YR 2/2	100					SL				
4-18"	10YR 5/6	100					SCL				
											_
											-
1			and the second NATION AND		0		21	N. Dana Lia	NA NA-1-	•	
Hydric Soil	oncentration, D=Depl	etion, RM=R	educed Matrix, MS	=Masked	Sand Gra	iins.	<sup>2</sup> Location: F		ing, M=Matr roblematic		ile <sup>3</sup> .
-			D 1 - 0 (	(07)						•	
Histosol	oipedon (A2)		Dark Surface		- (CO) /M	I D A 447			A10) <b>(MLR</b>	•	
Black Hi	. , ,		<ul><li>Polyvalue Be</li><li>Thin Dark Su</li></ul>				146) (	MLRA 14)	e Redox (A1	0)	
	en Sulfide (A4)		Loamy Gleye			47, 140)			oodplain So	ile (F10)	
	d Layers (A5)		Depleted Mat		۷)			(MLRA 1		113 (1 13)	
	ick (A10) <b>(LRR N)</b>		Redox Dark S		6)		\		v Dark Surfa	ace (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar						in in Remar		
	ark Surface (A12)	` '	Redox Depre							,	
Sandy M	lucky Mineral (S1) (L	RR N,	Iron-Mangane	ese Masse	s (F12) <b>(L</b>	RR N,					
MLRA	A 147, 148)		MLRA 136	5)							
Sandy G	Gleyed Matrix (S4)		Umbric Surfa	ce (F13) <b>(I</b>	MLRA 13	6, 122)	<sup>3</sup> Inc	dicators of h	ydrophytic v	egetation a	and
-	Redox (S5)		Piedmont Flo					etland hydro	ology must b	e present,	
	Matrix (S6)		Red Parent M	laterial (F2	21) <b>(MLR</b>	A 127, 147	') ur	nless disturb	ed or proble	ematic.	
Restrictive I	Layer (if observed):										
Type:			<u>—</u>								
Depth (inc	ches):		<u> </u>				Hydric Soi	I Present?	Yes	No	<u> </u>
Remarks:							ı				
Upland											

Project/Site: MVP	City/Co	<sub>unty:</sub> Pittsylvania	Sampling Date: 03/30/2015						
Applicant/Owner: MVP	VA Sampling Point: W-H1								
Investigator(s): A.Stott, A. Grech, H. Heist	Section	_							
		·	cave Slope (%): 0-3%						
Landform (hillslope, terrace, etc.): Valley bottom Local relief (concave, convex, none): Concave Slope (%): 0-3% Subregion (LRR or MLRA): LRRP Lat: 36.836109 Long: -79.360897 Datum: NAD 83									
Soil Map Unit Name: Chenneby-Toccoa comple		_							
•			·						
Are climatic / hydrologic conditions on the site typi	•		· .						
Are Vegetation, Soil, or Hydrology			ances" present? Yes No						
Are Vegetation, Soil, or Hydrology	naturally problemat	ic? (If needed, explain an	y answers in Remarks.)						
SUMMARY OF FINDINGS – Attach sit	te map showing sam	oling point locations, trai	nsects, important features, etc.						
Hydrophytic Vegetation Present? Yes	✓ No								
Hydric Soil Present? Yes	4/ 11	Is the Sampled Area within a Wetland? Ye.	sNo						
Wetland Hydrology Present? Yes	✓ No	within a wetiant:	5						
Remarks: Cowardin Code: PEM HGM: depressio	nal WT: RPWWN								
Information listed on this form represent of wetland hydrology, hydrophytic veget Supplement delineation methodology.	ts the data collected in	2015. The wetland was re was confirmed using the U	visited on 11/20/2019. Presence JSACE EMP Regional						
HYDROLOGY									
Wetland Hydrology Indicators:		<u>Seconda</u>	ry Indicators (minimum of two required)						
Primary Indicators (minimum of one is required;	check all that apply)	Surfa	ace Soil Cracks (B6)						
Surface Water (A1)	True Aquatic Plants (B	14) <u>v</u> Spar	sely Vegetated Concave Surface (B8)						
High Water Table (A2)	Hydrogen Sulfide Odo		nage Patterns (B10)						
Saturation (A3)	Oxidized Rhizospheres	• • • —	s Trim Lines (B16)						
Water Marks (B1)	<ul><li>Presence of Reduced</li><li>Recent Iron Reduction</li></ul>		Season Water Table (C2) fish Burrows (C8)						
Sediment Deposits (B2) Drift Deposits (B3)	Thin Muck Surface (C7		ration Visible on Aerial Imagery (C9)						
Algal Mat or Crust (B4)	Other (Explain in Rem		ted or Stressed Plants (D1)						
Iron Deposits (B5)	Other (Explain in Rein		morphic Position (D2)						
Inundation Visible on Aerial Imagery (B7)			low Aquitard (D3)						
Water-Stained Leaves (B9)		Microtopographic Relief (D4)							
Aquatic Fauna (B13)		<u>✓</u> FAC	-Neutral Test (D5)						
Field Observations:									
	Depth (inches):3								
	Depth (inches):6	<del></del>							
	Depth (inches):0	Wetland Hydrology	Present? Yes No						
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	ring well, aerial photos, prev	ious inspections), if available:							
Barreta									
Remarks:									

#### VEGETATION (Four Strata) - Use scientific names of plants.

30'

Tree Stratum (Plot size: \_

Absolute Dominant Indicator

% Cover Species? Status

= Total Cover

	Sampling I	Point:	W-H1	
Dominance Tes	st worksheet	:		
Number of Domi That Are OBL, F			3	(A)
Total Number of Species Across			4*	(B)
Percent of Domi That Are OBL, F			75%	(A/B)
Prevalence Inde	ex workshee	t:		
Total % Cov	ver of:	M	lultiply by:	
OBL species		x 1 =		_
FACW species				
FAC species		x 3 =		_
FACU species		x 4 =		_
UPL species		x 5 =		_
Column Totals:		(A)		_ (B)
Prevalence	e Index = B/A	\ =		_

50% of total cover:	0	_ 20% of	total cover:_	0
Sapling/Shrub Stratum (Plot size: 15' )				
•				
) <u>.</u>				
).				
	_	0 :	= Total Cove	r
50% of total cover:	0			
Herb Stratum (Plot size: 5' )				
_Juncus effusus		20		FACW
Persicaria sp.*		20		ND
3. Carex vulpinoidea		15		OBL
L Dactylis glomerata		15		FACU
5. Juncus tenuis		15		FAC
Solanum carolinense		5		FACU
7				
3				
)				
0				
1				
	_		= Total Cove	
50% of total cover:	45	_ 20% of	total cover:_	18
Noody Vine Stratum (Plot size: 15' )				
2				
3				
l				
5				
		0.	- Total Covo	-

#### lydrophytic Vegetation Indicators:

- 1 Rapid Test for Hydrophytic Vegetation
- 2 Dominance Test is >50%
  - 3 Prevalence Index is ≤3.01
- 4 Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet)
- \_ Problematic Hydrophytic Vegetation<sup>1</sup> (Explain)

<sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

#### Definitions of Four Vegetation Strata:

**Tree** – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height.

**Sapling/Shrub** – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.

**Herb** – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.

 $\label{eq:woody vine} \textbf{Woody vine} - \textbf{All woody vines greater than 3.28 ft in height.}$ 

Hydrophytic Vegetation Present?

Yes \_\_\_\_\_ No \_\_\_\_

Remarks: (Include photo numbers here or on a separate sheet.)

ND- not determined

\*Vegetation not Id'd down to the species level is not included in the dominance test.

20% of total cover:\_

50% of total cover: \_\_\_

SOIL Sampling Point: W-H1

Profile Desc	ription: (Describe	to the dep	th needed to docur	nent the i	indicator	or confirn	n the absen	ce of indicators.)
Depth	Matrix		Redo	x Feature	S			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	<u>Remarks</u>
0-12"	10YR 5/2	90	5YR 4/6	10	C	M	SL	
12-20"	10YR 6/3	90	7.5YR 4/4	10	С	М	SC	
						·		<u> </u>
	-							
		·						
		. ——			-		-	
						<del></del>		
1Type: C-C	oncentration, D=Dep	letion RM-	-Reduced Matrix MS	S-Masker		aine	<sup>2</sup> l ocation:	PL=Pore Lining, M=Matrix.
Hydric Soil		ielion, Kivi-	-Neduced Matrix, Mc	3=IVIASKEC	J Sanu Gi	airis.		licators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface	(97)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(I</b>	/ILRA 147	. 148)	Coast Prairie Redox (A16)
	stic (A3)		Thin Dark Su				, ,	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye			, ,		Piedmont Floodplain Soils (F19)
	d Layers (A5)		Depleted Ma		,			(MLRA 136, 147)
	ick (A10) (LRR N)		Redox Dark		<del>-</del> 6)			Very Shallow Dark Surface (TF12)
Depleted	d Below Dark Surface	e (A11)	Depleted Dar	rk Surface	e (F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangan		es (F12) (	LRR N,		
	A 147, 148)		MLRA 13	•			3	
	Gleyed Matrix (S4)		Umbric Surfa					Indicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					wetland hydrology must be present,
	Matrix (S6)		Red Parent N	/lateriai (F	·21) (WLR	A 127, 14	<u>/)</u>	unless disturbed or problematic.
	Layer (if observed):							
Type:								
	ches):						Hydric S	oil Present? Yes No
Remarks:								



Photograph Direction North

Date: 03/30/2015

Comments: 2015 wetland delineation.



Photograph Direction East

Date: 11/20/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/C	county: Pittsylvania		Sampling Date: 03/30/2015
Applicant/Owner: MVP				,		Sampling Point: W-H1&2 UPL
Investigator(s): A. Stott, A.	Grech, F	H. Heist	Section	on, Township, Range: N		
						Slope (%): 0-3%
Subregion (LRR or MLRA): L				Long:7		Datum: NAD 83
Soil Map Unit Name: Chenne						
•						
Are climatic / hydrologic condi			· ·			
Are Vegetation, Soil _	, or H	lydrology	significantly distur	bed? Are "Norm	al Circumstances"	present? Yes No
Are Vegetation, Soil _	, or H	lydrology	naturally problemate	atic? (If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDIN	IGS – Atf	tach site ı	map showing san	npling point locat	ions, transects	s, important features, etc.
Hydrophytic Vegetation Pres	sent?	Yes	No. 🗸			
Hydric Soil Present?	,o.n.	Yes		Is the Sampled Area		No
Wetland Hydrology Present?	?	Yes		within a Wetland?	res	NO
Remarks:			<u> </u>			
Upland plot						
HYDROLOGY						
Wetland Hydrology Indicat	tors:				Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum	n of one is r	equired; che	ck all that apply)		Surface Soi	Cracks (B6)
Surface Water (A1)		<u></u>	_ True Aquatic Plants (	B14)	Sparsely Ve	egetated Concave Surface (B8)
High Water Table (A2)			_ Hydrogen Sulfide Od			atterns (B10)
Saturation (A3)		_		es on Living Roots (C3)	_	
Water Marks (B1)			Presence of Reduced	d Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	)		Recent Iron Reduction	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)			Thin Muck Surface (0	C7)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic	
Inundation Visible on Ae		y (B7)			Shallow Aqu	
Water-Stained Leaves (	B9)					aphic Relief (D4)
Aquatic Fauna (B13)				,	FAC-Neutra	I Test (D5)
Field Observations:		1/				
Surface Water Present?	Yes	No	Depth (inches):	<del></del>		
Water Table Present?			Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland	Hydrology Prese	nt? Yes No
Describe Recorded Data (str	ream gauge	e, monitoring	well, aerial photos, pre	evious inspections), if av	/ailable:	
Remarks:						
In cow pasture						

Sampling Point: W-H1&2 U
--------------------------

20'	Absolute	Dominant I		Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size:30')	% Cover	Species?	Status	Number of Dominant Species
1,				That Are OBL, FACW, or FAC:0 (A)
2		· <u></u>		Total Number of Dominant
3				Species Across All Strata: 2 (B)
4				
5				Percent of Dominant Species That Are OBL FACW or FAC: 0% (A/B)
				That Are OBL, FACW, or FAC:(A/B)
6				Prevalence Index worksheet:
7	0			Total % Cover of: Multiply by:
500/ (/ / )		= Total Cove		OBL species x 1 =
AFI	20% of	total cover:_	0	FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 )				
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				
6		· <del></del>		Prevalence Index = B/A =
			-	Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8			-	2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cove		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:0	20% of	total cover:_	0	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				Problematic Hydrophytic Vegetation¹ (Explain)
1. Setaria faberi	50		UPL	Problematic Hydrophytic Vegetation (Explain)
2. Lespedeza cuneata	30	<b>~</b>	FACU	4
3. Trifolium pratense	10		FACU	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4 Solanum carolinense	5		FACU	
5		· <del></del>		Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		·		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11		. <u></u>		Herb – All herbaceous (non-woody) plants, regardless
	95	= Total Cove	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47.5	20% of	total cover:_	19	Was been also Allows the constant the constant
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in height.
1				Total Time
2.				
3.		· <del></del>		
4			-	Hydrophytic
5			-	Vegetation Present? Yes No ✓
0		= Total Cove	_	riesent: res No
50% of total cover:0		total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-H1&2 UPL

Depth	Matrix	to the depth	Redox Fe	the indicator or confire	ii iiie abseiice	or mulcators.)
(inches)	Color (moist)	%		% Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-20"	5YR 4/6	100	· · · · · ·		SL	
					· · · · · · · · · · · · · · · · · · ·	-
		·		<del></del>		
<del></del>		· <del></del>			·	-
					<u> </u>	
	-	·		<del></del>		-
		·				
¹Type: C=Co	ncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Ma	sked Sand Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		1000011, 1000	oddood mann, mo me			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			cm Muck (A10) (MLRA 147)
	oipedon (A2)			Surface (S8) (MLRA 147		coast Prairie Redox (A16)
Black Hi				(S9) (MLRA 147, 148)	, 140, 0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Ma		Р	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matrix (I	, ,	<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark Surfa		V	ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Dark Su	· ,		other (Explain in Remarks)
	rk Surface (A12)	, ,	Redox Depression			,
	lucky Mineral (S1) (L	_RR N,		Masses (F12) (LRR N,		
	147, 148)		MLRA 136)			
Sandy G	leyed Matrix (S4)		Umbric Surface (F	13) <b>(MLRA 136, 122)</b>	<sup>3</sup> Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Floodpl	ain Soils (F19) (MLRA 1	<b>48)</b> we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Mater	ial (F21) <b>(MLRA 127, 14</b>	<b>7)</b> un	less disturbed or problematic.
Restrictive I	ayer (if observed):					
Type:			<u>_</u>			
Depth (inc	ches):				Hydric Soil	Present? Yes No
Remarks:	,		_			
rtomanto.						

Project/Site: MVP	City/County: _	Pittsylvania	Sampling Date: 05/02/2016				
Applicant/Owner: MVP	VA	Sampling Point: W-EF6					
Investigator(s): D Hadersbeck, J Potriku	s, A Flake Section, Tow						
Landform (hillslope, terrace, etc.): Floodpla			Slope (%): 1				
Subregion (LRR or MLRA): LRR P	Lat: 36.835027°	Long: -79.338538°	Datum: NAD 83				
Soil Map Unit Name: 23B		NWI classif					
Are climatic / hydrologic conditions on the site		_					
Are Vegetation, Soil, or Hydrole							
Are Vegetation, Soil, or Hydrold		(If needed, explain any answ	•				
SUMMARY OF FINDINGS – Attach	site map showing sampling	point locations, transect	s, important teatures, etc.				
Hydrophytic Vegetation Present? Yes	No Is the	Sampled Area					
Hydric Soil Present? Yes	No.	a Wetland? Yes	No				
Wetland Hydrology Present? Yes							
Remarks: Cowardin Code: PFO	HGM: Riverine	Water Type: RPWWD					
HYDROLOGY							
Wetland Hydrology Indicators:		Secondary India	cators (minimum of two required)				
Primary Indicators (minimum of one is require	d: check all that apply)	Surface So					
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)				
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		Patterns (B10)				
Saturation (A3)	<ul><li>Oxidized Rhizospheres on Li</li></ul>		Lines (B16)				
Water Marks (B1)	Presence of Reduced Iron (C	• , , —	n Water Table (C2)				
Sediment Deposits (B2)	Recent Iron Reduction in Tille						
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		Stunted or Stressed Plants (D1)				
Iron Deposits (B5)		✓ Geomorphi	` ,				
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu					
✓ Water-Stained Leaves (B9)			raphic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutra					
Field Observations:							
Surface Water Present? Yes N	o Depth (inches):1						
Water Table Present? Yes N	Depth (inches): 2						
	o Depth (inches):2	Wetland Hydrology Prese	ent? Yes <u> </u>				
(includes capillary fringe)  Describe Recorded Data (stream gauge, mor	itaring wall parial photos, provious in	anactions) if available:					
Describe Recolded Data (stream gauge, mor	iloning well, aerial photos, previous in	spections), ii avaiiabie.					
Remarks:							

Sampling	Point:	W	′-E	F6
Sambilliu	POII IL.		_	

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:
Tiee Stratum (Flot size)		Species?		Number of Dominant Species
1. Salix nigra	20		OBL	That Are OBL, FACW, or FAC:7 (A)
2. Acer rubrum	75		FAC	Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 88 (A/B)
6.				That Are OBL, FACW, OF FAC.
7.				Prevalence Index worksheet:
T	95	= Total Cov		Total % Cover of: Multiply by:
50% of total cover: 47.5				OBL species x 1 =
AFI	20 /0 01	total cover.		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15 )  1. Acer rubrum	35	.,	E40	FAC species x 3 =
			FAC	
2. Sambucus nigra	5		F <u>AC</u>	FACU species x 4 =
3. Rubus allegheniensis	25		FACU_	UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravelance Index D/A
6				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8		-		2 - Dominance Test is >50%
9	~=			3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ (1.1.)		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 32.5	20% of	total cover:	13	data in Remarks or on a separate sheet)
( lot size)	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Toxicodendron radicans	60		F <u>AC</u>	Troblemate Hydrophytic Vegetation (Explain)
2. Eupatorium perfoliatum	10		F <u>ACW</u>	The disease of budgie and modern debuggers as set
3. Microstegium vimineum	50	<b>✓</b>	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4. Lonicera japonica	25		FAC	Definitions of Four Vegetation Strata:
5. Vitis sp	10		ND	Definitions of Four Vegetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
				more in diameter at breast height (DBH), regardless of
7				height.
0				Sapling/Shrub – Woody plants, excluding vines, less
8				Caping/On ab Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
•			<u> </u>	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
9	155	= Total Cov	  er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
9	155			than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	155	= Total Cov		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
9	155	= Total Cov		than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
9	155 20% of	= Total Cov	31	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
9	155 5 20% of	= Total Cov	31 FAC	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
9	155 5 20% of	= Total Cov	31 FAC	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in
9	155 5 20% of	= Total Cov	31 FAC	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic
9	155 5 20% of 25 20	= Total Cov total cover:	FAC FAC	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation
9	155 20% of 25 20 45 20% of	= Total Cover:	FAC FAC FAC er	than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.  Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.  Woody vine – All woody vines greater than 3.28 ft in height.  Hydrophytic Vegetation

Depth	Matrix			<u> Features</u>			_		_	
(inches)	Color (moist)	<u>%</u>	Color (moist)		Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	· -	Remarks	
0-16	2.5Y5/2	75	5YR5/8	25	С	M/PL	SiCL	· ·		
						· ——				
						- ——		· <del></del>		
			_							
								·		
vne: C=Co	oncentration, D=Depl	etion. RM=F	Reduced Matrix, MS	=Masked S	Sand Gr	ains.	<sup>2</sup> Location: F	PI =Pore Lin	ing, M=Matrix.	
	ndicators:	<u> </u>	toddood matin, me	· maonou e	<u> </u>	u			roblematic Hy	
_ Histosol			Dark Surface	(S7)					A10) <b>(MLRA 1</b>	
	ipedon (A2)		Polyvalue Be		e (S8) <b>(I</b>	/ILRA 147,		,	Redox (A16)	•
Black Hi			Thin Dark Su				<i>'</i> —	(MLRA 14		
_ Hydroge	n Sulfide (A4)		Loamy Gleye	d Matrix (F2	2)		F	Piedmont Flo	oodplain Soils	(F19)
_ Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13		
	ck (A10) (LRR N)		Redox Dark S		•				v Dark Surface	
	Below Dark Surface	(A11)	Depleted Dar				_ (	Other (Expla	in in Remarks	)
	rk Surface (A12)		Redox Depre							
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		s (F12) (	LRR N,				
	147, 148) leyed Matrix (S4)		MLRA 130 Umbric Surfa	•	II D A 13	)6 122\	3 <sub>ln</sub> ,	diagtors of h	ydrophytic veg	rotation and
	edox (S5)		Piedmont Flo						ology must be i	
	Matrix (S6)		Red Parent M					-	ed or problem	
	ayer (if observed):		Red r drent iv	iatoriai (i Z	·		, ui	iiooo diotara	ed of problem	ullo.
Type:	,									
	ches):						Hydric Soi	I Drocont?	Yes_	No
			<u> </u>				Tiyunc 301	i i ieseiit:	163	
emarks:										



Photograph Direction NE

Comments:		

Project/Site: MVP	City/County: P	Sampling Date: 05/02/2016			
Applicant/Owner: MVP		State: VA	Sampling Point: W-EF6-UP		
Investigator(s): D Hadersbeck, J Potrikus,					
Landform (hillslope, terrace, etc.): Slope	<del></del>		Slope (%): 2		
Subregion (LRR or MLRA): LRR P					
Soil Map Unit Name: 23B		NWI classi			
Are climatic / hydrologic conditions on the site type					
Are Vegetation, Soil, or Hydrolog	•				
Are Vegetation, Soil, or Hydrolog					
SUMMARY OF FINDINGS – Attach s					
	No. lathe S	<u> </u>	<u> </u>		
	No V	ampled Area	N = <b>V</b>		
	No within a	Wetland? Yes	No		
Remarks: Cowardin Code: UPLAND		Vater Type:			
HYDROLOGY					
Wetland Hydrology Indicators:		Secondary Indi	cators (minimum of two required)		
Primary Indicators (minimum of one is required	check all that apply)	Surface Sc	il Cracks (B6)		
Surface Water (A1)	True Aquatic Plants (B14)	Sparsely Vegetated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage P	atterns (B10)		
Saturation (A3)	Oxidized Rhizospheres on Livir	-	Lines (B16)		
Water Marks (B1)	Presence of Reduced Iron (C4)		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction in Tilled		ırrows (C8)		
Drift Deposits (B3)	Thin Muck Surface (C7)		Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Remarks)	· <del></del>	Stressed Plants (D1)		
Iron Deposits (B5)			ic Position (D2)		
Inundation Visible on Aerial Imagery (B7)		Shallow Ad			
Water-Stained Leaves (B9)			raphic Relief (D4)		
Aquatic Fauna (B13)		FAC-Neutr	ai Test (D5)		
Field Observations: Surface Water Present? Yes No	Depth (inches):				
	Depth (inches):				
	Depth (inches):	Wetland Hydrology Pres	ent? Yes No 🗸		
(includes capillary fringe)		,	ent: les No		
Describe Recorded Data (stream gauge, monitor	oring well, aerial photos, previous insp	pections), if available:			
Remarks:					
Nemarks.					

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling	Point: W-EF6-UP
----------	-----------------

30'	Absolute		Indicator	Dominance Test worksheet:
Tree Stratum (Plot size:)		Species?		Number of Dominant Species
1. Pinus taeda	20		FAC	That Are OBL, FACW, or FAC:6 (A)
2. Aesculus flava	10		<u>FACU</u>	Total Number of Dominant
3				Species Across All Strata: 8 (B)
4				
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 75 (A/B)
				That Are OBL, FACW, or FAC:
6				Prevalence Index worksheet:
7	30	T		Total % Cover of: Multiply by:
50% of total cover:15		= Total Co		OBL species x 1 =
4.51	20% of	total cove	r: <del>U</del>	FACW species x 2 =
Odping/Onitab Ottatam (1 lot 3izc)	15		<b>-</b> 40	
1. Acer rubrum	15		FAC	FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Dravalance Index: D/A
6.				Prevalence Index = B/A =
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9	4 =			3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% attacks 7.5		= Total Co		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 7.5	20% of	total cove	r: <u>      3                              </u>	data in Remarks or on a separate sheet)
ricio di atam (rici size)	00			Problematic Hydrophytic Vegetation¹ (Explain)
1. Toxicodendron radicans	30		F <u>AC</u>	
2. Lonicera japonica	25		FAC	<sup>1</sup> Indicators of hydric coil and watland hydrology must
3. Pteridium aquilinum	20		FACU_	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
				neight.
8				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Co		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>37.</u>	20% of	total cove	r: <u>15</u>	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Toxicodendron radicans	15		FAC	
2. Smilax rotundifolia	15		FAC	
3				
4.				
5.				Hydrophytic Vegetation
	30	= Total Co	VAr	Present? Yes V No No
50% of total cover: 15		total cove	_	
Remarks: (Include photo numbers here or on a separate s		10101 0010	· •	
Remarks. (include prioto numbers here of off a separate s	ileet.)			

Depth	ription: (Describe t		Redo	x Features					
(inches)	Color (moist)	%	Color (moist)		ype <sup>1</sup> Loc <sup>2</sup>	<u>Texture</u>		Remarks	
0-14	2.5Y5/3	93	7.5YR5/6	<u>7</u> <u>C</u>	<u> </u>	SiL			
					<del></del>		-		
					<del></del>				
[vne: C=Cc	oncentration, D=Depl	etion RM=R	educed Matrix MS	S=Masked Sa	nd Grains	<sup>2</sup> Location: Pl	=Pore Lining	n M=Matrix	
	ndicators:	ouon, ruvi–ru	oddodd Widthx, Wie	z-Maskea Ga	ia Grains.		tors for Pro		dric Soils <sup>3</sup> :
_ Histosol			Dark Surface	(S7)			cm Muck (A1		
	pipedon (A2)				S8) <b>(MLRA 147</b>		oast Prairie F		,
Black Hi				,	LRA 147, 148)	, ., <u> </u>	(MLRA 147,		
	n Sulfide (A4)		Loamy Gleye		,	P	edmont Floo		(F19)
_ Stratified	Layers (A5)		Depleted Mat	rix (F3)			(MLRA 136,	, 147)	
	ck (A10) (LRR N)		Redox Dark S	, ,			ery Shallow D		
	Below Dark Surface	e (A11)	Depleted Dar	•	)	0	ther (Explain	in Remarks)	
	ark Surface (A12)		Redox Depre						
	lucky Mineral (S1) (L	RR N,	Iron-Mangan		F12) <b>(LRR N</b> ,				
	(147, 148)		MLRA 130	•	DA 400 400\	31			
	leyed Matrix (S4) edox (S5)		Umbric Surfa		(F19) <b>(MLRA 1</b>		cators of hyd tland hydrolo		
-	Matrix (S6)				(F19) (MLRA 1 (MLRA 127, 14		ess disturbed		
	_ayer (if observed):		Neu i alentin	iateriai (i 2 i)	(WILKA 127, 14	uni	ess distuibed	7 OF PRODICTION	atio.
Type:	ayer (ii observed).								
	shoo):		<del></del>			Hydric Soil	Brocont?	Voc	No_
	ches):		_			Hydric Soil	rieseiit	Yes	NO <u>*</u>
emarks:									

Project/Site: MVP			City/C	ountv: Pittsylvania		Sampling Date: 03/30/2015	
Applicant/Owner: MVP						Sampling Point: W-H2	
Investigator(s): A.stott, A.G	rech. H.Heis	t	Section	on, Township, Range: S		<u> </u>	
Landform (hillslope, terrace, etc.): Valley bottom  Local relief (concave, convex, none): Concave  Slope (%): 0-3							
Subregion (LRR or MLRA): L	DDD		Local Tell				
						Datum: NAD 83	
Soil Map Unit Name: Chenne						·	
Are climatic / hydrologic condit	ions on the site	typical f	or this time of year? Y	es No	(If no, explain in R	emarks.)	
Are Vegetation, Soil	, or Hydro	ogy	significantly distur	bed? Are "Norma	l Circumstances" p	resent? Yes No	
Are Vegetation, Soil					explain any answe		
SUMMARY OF FINDIN	GS – Attach	site n	nap showing sam	pling point location	ons, transects	, important features, etc.	
Hydrophytic Vegetation Pres	ont? Ve	s <b>/</b>	No				
Hydric Soil Present?		s	No	Is the Sampled Area	Yes 🗸		
Wetland Hydrology Present?		s 🔽	No	within a Wetland?	Yes	No	
Remarks:							
Cowardin Code: PEM							
HGM: Depressional							
WT: RPWWD							
In cow pasture							
HYDROLOGY							
Wetland Hydrology Indicate	ors:				Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum	of one is requir	ed; ched	ck all that apply)		Surface Soil		
✓ Surface Water (A1)			True Aquatic Plants (	B14)	Sparsely Veg	getated Concave Surface (B8)	
High Water Table (A2)		_	Hydrogen Sulfide Od	, ,	✓ Drainage Pat	tterns (B10)	
Saturation (A3)			•	es on Living Roots (C3)	Moss Trim Li		
Water Marks (B1)			Presence of Reduced	, ,		Water Table (C2)	
Sediment Deposits (B2)			Recent Iron Reductio		Crayfish Burr		
Drift Deposits (B3)			Thin Muck Surface (C			sible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)			Other (Explain in Rer	narks)		tressed Plants (D1)	
Iron Deposits (B5) Inundation Visible on Ae	rial Imagery (R	'\			Geomorphic Shallow Aqui		
Water-Stained Leaves (E		,				phic Relief (D4)	
Aquatic Fauna (B13)	,5)				FAC-Neutral		
Field Observations:						(-0)	
Surface Water Present?	Yes 🗸 1	lo.	_ Depth (inches):	3"			
Water Table Present?			Depth (inches):	6"			
Saturation Present?				0" Wetland I	Hydrology Presen	t? Yes ✔ No	
(includes capillary fringe)			_				
Describe Recorded Data (stre	∍am gauge, mo	nitoring	well, aerial photos, pre	vious inspections), if ava	ailable:		
Remarks:							
. tomano							

Sampling	Point:	W-H2
Januania	i Oiiit.	

,	Abcoluto	Dominant In	dicator	Dominance Test worksheet
<u>Tree Stratum</u> (Plot size:)		Dominant Ir Species?		Dominance Test worksheet:
				Number of Dominant Species That Are OBL, FACW, or FAC: (A)
1				That Are OBL, FACW, OF FAC.
2				Total Number of Dominant
3				Species Across All Strata: 2* (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				(42)
7				Prevalence Index worksheet:
	0	= Total Cover		Total % Cover of: Multiply by:
50% of total cover: 0				OBL species x 1 =
451	20 /6 01	total cover		FACW species x 2 =
Capining/Ornab Citatami (1 lot 6)26.				
1		<del></del>		FAC species x 3 =
2		. <u></u> .		FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8		. <u></u> .		✓ 2 - Dominance Test is >50%
9				1 <del></del>
	0	= Total Cover		3 - Prevalence Index is ≤3.0¹
50% of total cover:0		total cover:	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate sheet)
1. Juncus effusus	30	<b>~</b>	FACW	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
115				
2. Carex lurida	30		OBL	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Persicaria sp.*	20		ND	be present, unless disturbed or problematic.
4. Dichanthelium clandestinum	10		FAC	Definitions of Four Vegetation Strata:
5. Carex vulpinoidea	5		OBL	Deminitions of Four Vegetation Strata.
		·		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				Sapling/Shrub – Woody plants, excluding vines, less
9		. <u></u> .		than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Hank All hankasassa (nan sunah) nlanta nanandlasa
	95	= Total Cover		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>47.5</u>				or orze, and woody planto loss than orze it tall.
	2070 01	total cover		Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1				
2				
3				
4				
5				Hydrophytic Vegetation
	_	= Total Cover		Present? Yes V No
50% of total cover: 0		total cover:		
		total cover		
Remarks: (Include photo numbers here or on a separate sl	neet.)			
ND- not determined				
*Vegetation not Id'd down to the species level is	not inclu	ded in the	domina	ance test.

SOIL Sampling Point: W-H2

Profile Desc	cription: (Describe	to the dep	th needed to docur	nent the i	ndicator	or confirm	the absenc	e of indicators.)
Depth	Matrix		Redo	x Feature	s			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-10"	10YR 4/2	85	7.5YR 4/6	15	С	M/PL-	SCL	
10-20"	10YR 4/3	80	7.5 YR 4/6	20	С	M	SiCL	
10 20	10111110		7.0 110 110				0.02	
	-							
						·		
<sup>1</sup> Type: C=C	oncentration, D=Depl	letion, RM=	=Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil								cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)				2 cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Be		ce (S8) (N	ILRA 147,		Coast Prairie Redox (A16)
	istic (A3)		Thin Dark Su				, <u>—</u>	(MLRA 147, 148)
	en Sulfide (A4)		Loamy Gleye	, ,	•			Piedmont Floodplain Soils (F19)
Stratifie	d Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	uck (A10) (LRR N)		Redox Dark	Surface (F	<del>-</del> 6)			Very Shallow Dark Surface (TF12)
Deplete	d Below Dark Surface	e (A11)	Depleted Da	rk Surface	(F7)			Other (Explain in Remarks)
	ark Surface (A12)		Redox Depre					
	Mucky Mineral (S1) <b>(L</b>	.RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 13	•				
	Gleyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
	Redox (S5)		Piedmont Flo					vetland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	) u	nless disturbed or problematic.
Restrictive	Layer (if observed):							
Туре:								
Depth (in	ches):		<u></u>				Hydric So	il Present? Yes V No No
Remarks:							•	
1								

# **Wetland Photograph Page**

#### Wetland ID W-H2



Photograph Direction West

Date: 03/30/2015

Comments: 2015 wetland delineation.



Photograph Direction South

Date: 11/20/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP			City/C	ounty: Pittsylvania		Sampling Date: 03/30/2015
Applicant/Owner: MVP				•		Sampling Point: W-H1&2 UPL
Investigator(s): A. Stott, A.	Grech, F	H. Heist	Section	on, Township, Range: N		
						Slope (%): 0-3%
Subregion (LRR or MLRA): L				Long:7		Datum: NAD 83
Soil Map Unit Name: Chenne						
•						
Are climatic / hydrologic cond			-			
Are Vegetation, Soil _	, or H	lydrology	significantly distur	bed? Are "Norma	al Circumstances"	present? Yes No
Are Vegetation, Soil _	, or H	lydrology	naturally problema	atic? (If needed,	explain any answe	ers in Remarks.)
SUMMARY OF FINDIN	IGS – Atf	tach site ı	map showing sam	pling point locati	ons, transects	s, important features, etc.
Hydrophytic Vegetation Pres	sent?	Yes	No 🗸			
Hydric Soil Present?	70111.	Yes		Is the Sampled Area	Vac	No ✓
Wetland Hydrology Present	?	Yes		within a Wetland?	res	NO
Remarks:						
Upland plot						
HYDROLOGY						
Wetland Hydrology Indica	tors:				Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum	n of one is r	equired; che	ck all that apply)		Surface Soil	Cracks (B6)
Surface Water (A1)		<u></u>	_ True Aquatic Plants (	B14)	Sparsely Ve	getated Concave Surface (B8)
High Water Table (A2)			_ Hydrogen Sulfide Od		Drainage Patterns (B10)	
Saturation (A3)		_		es on Living Roots (C3)	-	
Water Marks (B1)			_ Presence of Reduced	I Iron (C4)	Dry-Season	Water Table (C2)
Sediment Deposits (B2)	ı		Recent Iron Reductio	n in Tilled Soils (C6)	Crayfish Bu	rrows (C8)
Drift Deposits (B3)			_ Thin Muck Surface (C	27)	Saturation V	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		_	Other (Explain in Rer	narks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)					Geomorphic	
Inundation Visible on A		y (B7)			Shallow Aqu	
Water-Stained Leaves (	B9)					aphic Relief (D4)
Aquatic Fauna (B13)					FAC-Neutra	I Test (D5)
Field Observations:		1/				
Surface Water Present?	Yes	No	Depth (inches):	<del></del>		
Water Table Present?			Depth (inches):			
Saturation Present? (includes capillary fringe)	Yes	No	Depth (inches):	Wetland	Hydrology Prese	nt? Yes No
Describe Recorded Data (st	ream gauge	e, monitoring	well, aerial photos, pre	vious inspections), if av	ailable:	
Remarks:						
In cow pasture						

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-H1&2 UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:		
Tiec otratum (Flot size.		Species?		Number of Dominant Species	0	
1				That Are OBL, FACW, or FAC:	0	(A)
2				Total Number of Dominant		
3				Species Across All Strata:	2	(B)
4				5 . (5		
5				Percent of Dominant Species That Are OBL, FACW, or FAC:	0%	(A/B)
6				matrice obe, triow, or the.		(700)
7				Prevalence Index worksheet:		
	0 -	= Total Cove		Total % Cover of:	Multiply by:	
50% of total cover:0				OBL species x 1	=	_
Sapling/Shrub Stratum (Plot size: 15' )			•	FACW species x 2	2 =	
				FAC species x 3	3 =	
1				FACU species x 4		
2				UPL species x 5		
3				Column Totals: (A)		
4				Column Totals(A)		(b)
5				Prevalence Index = B/A =		
6				Hydrophytic Vegetation Indicat	ors:	
7				1 - Rapid Test for Hydrophyti		
8				2 - Dominance Test is >50%	o vegetation	
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>		
	^	= Total Cove	er		-1 (Dan data a	
50% of total cover:0	20% of	total cover:	0	4 - Morphological Adaptation		
Herb Stratum (Plot size: 5')				data in Remarks or on a s		
1. Setaria faberi	50	<b>✓</b>	UPL	Problematic Hydrophytic Veg	etation (Expla	ain)
2. Lespedeza cuneata	30	~	FACU			
3. Trifolium pratense	10		FACU	<sup>1</sup> Indicators of hydric soil and wetla		must
4 Solanum carolinense	5		FACU	be present, unless disturbed or pr		
·" <del></del>				Definitions of Four Vegetation	Strata:	
5				Tree – Woody plants, excluding v	ines. 3 in. (7.6	cm) or
6				more in diameter at breast height		
7				height.		
8				Sapling/Shrub – Woody plants, e	excludina vines	s. less
9				than 3 in. DBH and greater than o	or equal to 3.28	3 ft (1
10				m) tall.		
11				Herb – All herbaceous (non-wood	dy) plants, rega	ardless
		= Total Cove		of size, and woody plants less that		
50% of total cover: <u>47.5</u>	5 20% of	total cover:	19	Woody vine – All woody vines gr	oator than 2 29	9 ft in
Woody Vine Stratum (Plot size:15')				height.	eater than 5.20	51(11)
1						
2						
3						
4						
5.				Hydrophytic Vegetation		
<u>.                                    </u>	^	= Total Cove		Present? Yes	No_ 🗸	
50% of total cover: 0		total cover:	_			
Remarks: (Include photo numbers here or on a separate s		10101 00101.				
Remarks. (include prioto numbers here or on a separate s	neet.)					
						l

Sampling Point: W-H1&2 UPL

Depth	Matrix	to the depth	Redox Fe	the indicator or confire	ii iiie abseiice	or mulcators.)
(inches)	Color (moist)	%		% Type <sup>1</sup> Loc <sup>2</sup>	Texture	Remarks
0-20"	5YR 4/6	100	· · · · · ·		SL	
					· · · · · · · · · · · · · · · · · · ·	-
		·		<del></del>		
<del></del>		· <del></del>			·	-
					<u> </u>	
	-	·		<del></del>		-
		·				
¹Type: C=Co	ncentration, D=Dep	letion, RM=Re	educed Matrix, MS=Ma	sked Sand Grains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.
Hydric Soil		1000011, 1000	oddood mann, mo me			ators for Problematic Hydric Soils <sup>3</sup> :
Histosol			Dark Surface (S7)			cm Muck (A10) (MLRA 147)
	oipedon (A2)			Surface (S8) (MLRA 147		coast Prairie Redox (A16)
Black Hi				(S9) (MLRA 147, 148)	, 140, 0	(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed Ma		Р	iedmont Floodplain Soils (F19)
	Layers (A5)		Depleted Matrix (I	, ,	<u> </u>	(MLRA 136, 147)
	ck (A10) (LRR N)		Redox Dark Surfa		V	ery Shallow Dark Surface (TF12)
	Below Dark Surfac	e (A11)	Depleted Dark Su	· ,		other (Explain in Remarks)
	rk Surface (A12)	, ,	Redox Depression			,
	lucky Mineral (S1) (L	_RR N,		Masses (F12) (LRR N,		
	147, 148)		MLRA 136)			
Sandy G	leyed Matrix (S4)		Umbric Surface (F	13) <b>(MLRA 136, 122)</b>	<sup>3</sup> Ind	icators of hydrophytic vegetation and
Sandy R	edox (S5)		Piedmont Floodpl	ain Soils (F19) (MLRA 1	<b>48)</b> we	tland hydrology must be present,
Stripped	Matrix (S6)		Red Parent Mater	ial (F21) <b>(MLRA 127, 14</b>	<b>7)</b> un	less disturbed or problematic.
Restrictive I	ayer (if observed):					
Type:			<u>_</u>			
Depth (inc	ches):				Hydric Soil	Present? Yes No
Remarks:	,		_			
rtomanto.						

Project/Site: MVP	City/Co	<sub>unty:</sub> Pittsylvania		Sampling Date: 05/02/2016
Applicant/Owner: MVP			State: VA	Sampling Point: W-IJ21
Investigator(s): E. Foster, B. Schrotenboe	r, J. Niergarth Section	n. Township, Range: N/		
Landform (hillslope, terrace, etc.): Slope				Slone (%): 1
Subregion (LRR or MLRA): LRR P	Lat: 36 834677	Long: -79	.338498	Datum: NAD 83
Soil Map Unit Name: 23b-Mayodan fine sandy				
Are climatic / hydrologic conditions on the site tyl				
Are Vegetation, Soil, or Hydrolog				
Are Vegetation, Soil, or Hydrolog	y naturally problemat	ic? (If needed, e	explain any answe	ers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sam	pling point location	ons, transects	, important features, etc.
Hydrophytic Vegetation Present? Yes _	✓ No			
Hydric Soil Present? Yes	AZ NI	Is the Sampled Area within a Wetland?	Yes 🗸	No
Wetland Hydrology Present? Yes _		within a wetland:	165	
Remarks: Cowardin Code: PFO	HGM: Slope	Water Type:	RPWWD	
Appears to be old pine plantation. Don	•			turbed with impacted
hydrology. Large multi-stemmed red m	•	• .		
, 3, 3	•	3		
HYDROLOGY				
Wetland Hydrology Indicators:			Secondary Indica	ators (minimum of two required)
Primary Indicators (minimum of one is required	· check all that apply)		Surface Soil	
✓ Surface Water (A1)	True Aquatic Plants (B	.14)		getated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odo		✓ Drainage Pa	
Saturation (A3)	Oxidized Rhizospheres		Moss Trim L	
Water Marks (B1)	Presence of Reduced			Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction		Crayfish Bur	
Drift Deposits (B3)	Thin Muck Surface (C7		-	isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Rema			tressed Plants (D1)
Iron Deposits (B5)		,	<b>C</b> Geomorphic	
Inundation Visible on Aerial Imagery (B7)			Shallow Aqu	
✓ Water-Stained Leaves (B9)				aphic Relief (D4)
Aquatic Fauna (B13)			✓ FAC-Neutral	Test (D5)
Field Observations:				
	Depth (inches):1			
Water Table Present? Yes No	Depth (inches):1			
	Depth (inches):8	Wetland F	lydrology Preser	nt? Yes <u> </u>
(includes capillary fringe)  Describe Recorded Data (stream gauge, monit	oring well aerial photos, prev	ious inspections) if ava	ilahle:	
December Recorded Data (effectivity gauge, mem.	orning won, donar priotos, prov	iodo inopodilono), ii dva	ilabio.	
Remarks:				

		۱۸/	1 101
Sampling	Point:	v v -	IJZ I

20'	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?	Status	Number of Dominant Species
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC:5 (A)
2				, , ,
		· <u></u>		Total Number of Dominant
3		-		Species Across All Strata:5 (B)
4				Demonstrat Demoissant Organism
5				Percent of Dominant Species That Are OBL_FACW_or FAC: 100 (A/B)
				That Are OBL, FACW, or FAC: 100 (A/B)
6		-		Prevalence Index worksheet:
7				
	30	= Total Co	ver	Total % Cover of: Multiply by:
50% of total cover:15				OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
Sapinig/Strata Stratani (Fiot size)	10		E40	FAC species x 3 =
1. Quercus phellos			F <u>AC</u>	
2. Viburnum nudum	5		QBL	FACU species x 4 =
3. Nyssa sylvatica	15	<b>/</b>	FAC	UPL species x 5 =
	· -	· <u></u>		Column Totals: (A) (B)
4		-		Column rotals. (A)
5				Prevalence Index = B/A =
6				
				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
		= Total Co		3 - Prevalence Index is ≤3.0 <sup>1</sup>
500/ - (1-1-1 15				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover:15	20% of	total cove	r: <u> </u>	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5' )				•
1. Persicaria maculata	5	<b>✓</b>	<b>FACW</b>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Definitions of Four Vegetation Strata.
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6		-		more in diameter at breast height (DBH), regardless of
7		<u></u>		height.
8				
				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	5	= Total Co	vor	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 2.5		total cove		or size, and weddy plants less than 6.20 it tall.
451	20% OI	total cove	. <u> </u>	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15')				height.
1. Smilax rotundifolia	15	<b>✓</b>	FAC	
2.				
3				
4				Lludranhutia
5				Hydrophytic Vegetation
0	15			Present? Yes No
		= Total Co	_	11000iii. 100 <u></u> 110 <u></u>
50% of total cover: 7.5	20% of	total cove	r: <u>      3                              </u>	
Remarks: (Include photo numbers here or on a separate s	sheet.)			
, , ,	,			
1				

Sampling Point: W-IJ21

SOIL

Depth	ription: (Describe	to the depti		K Features	uicatoi	or commi	i tile absence	or mulcan	)is.j	
(inches)	Color (moist)	%	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	
0-6	10yr 5/2	70	10yr 5/6	2	С	PL	SL	-		
	10yr 5/3	_28								
6-12	2.5y 5/6	100					LS			
		· <del></del>								
	-	· —— ·								
	-									
	-									
								-		
		·								
		· ———   •						-		
							2			
Type: C=Co ydric Soil I	oncentration, D=Dep	letion, RM=F	Reduced Matrix, MS	S=Masked S	Sand Gi	ains.			ng, M=Matrix. roblematic H	
•			Dorle Curfoso	(07)						
Histosol	(AT) pipedon (A2)		Dark Surface Polyvalue Be		(S8) <b>(</b> 1	MI RΔ 147		,	A10) <b>(MLRA</b> 1 e Redox (A16)	•
Histic Ep Black His			Thin Dark Su				,	MLRA 14)		•
	n Sulfide (A4)		Loamy Gleye	. ,	•	, <b>. ,</b>	F	•	oodplain Soils	(F19)
Stratified	Layers (A5)		Depleted Mat	rix (F3)				(MLRA 13		
	ck (A10) (LRR N)		Redox Dark S	•	,				v Dark Surface	
	Below Dark Surface	e (A11)	Depleted Dar				_ (	Other (Expla	in in Remarks	s)
	ark Surface (A12)	DD N	Redox Depre			(LDD N				
	lucky Mineral (S1) <b>(L</b> <b>\ 147, 148)</b>	KK N,	Iron-Mangane		S (F12)	(LKK N,				
	leyed Matrix (S4)		Umbric Surfa	•	ILRA 1	36. 122)	<sup>3</sup> Inc	licators of h	ydrophytic ve	getation and
	edox (S5)		Piedmont Flo						logy must be	
	Matrix (S6)		Red Parent M						ed or problem	
estrictive L	ayer (if observed):									
Туре:										
Depth (inc	ches):						Hydric Soi	Present?	Yes 🗸	No
Remarks:							-			



Photograph Direction NNE

Comments:		

Project/Site: MVP	City/County: Pittsylv	vania	Sampling Date: 05/02/2016
Applicant/Owner: MVP		State: VA	Sampling Point: W-IJ21-UP
Investigator(s): E. Foster, B. Schrotenboe	r, J. Niergarth Section Township R		
Landform (hillslope, terrace, etc.): Slope	<u> </u>	<u> </u>	Slone (%): 1
Subregion (LRR or MLRA): LRR P			Datum: NAD 83
Soil Map Unit Name: 23b-Mayodan fine sandy			
Are climatic / hydrologic conditions on the site type	•		
Are Vegetation, Soil, or Hydrolog	y significantly disturbed? Are	"Normal Circumstances"	present? Yes No
Are Vegetation, Soil, or Hydrolog	y naturally problematic? (If r	needed, explain any answ	ers in Remarks.)
SUMMARY OF FINDINGS – Attach s	ite map showing sampling point	locations, transects	s, important features, etc.
Lindrenbutio Vegetation Present?	V No la the Semple		
_ · · · · -	No V		4
	No within a Wetla	and? Yes	No
Describe	L		
Cowardin Code: UPLAND	HGM: Water	Type:	
HYDROLOGY			
Wetland Hydrology Indicators:		Secondary Indic	ators (minimum of two required)
Primary Indicators (minimum of one is required:	; check all that apply)	Surface Soi	
Surface Water (A1)	True Aquatic Plants (B14)		egetated Concave Surface (B8)
High Water Table (A2)	Hydrogen Sulfide Odor (C1)		atterns (B10)
Saturation (A3)	Oxidized Rhizospheres on Living Roo	-	
Water Marks (B1)	Presence of Reduced Iron (C4)		Water Table (C2)
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils	(C6) Crayfish Bu	rrows (C8)
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation \	/isible on Aerial Imagery (C9)
Algal Mat or Crust (B4)	Other (Explain in Remarks)	Stunted or S	Stressed Plants (D1)
Iron Deposits (B5)		Geomorphic	Position (D2)
Inundation Visible on Aerial Imagery (B7)		Shallow Aqu	uitard (D3)
Water-Stained Leaves (B9)		Microtopogr	aphic Relief (D4)
Aquatic Fauna (B13)		FAC-Neutra	al Test (D5)
Field Observations:			
Surface Water Present? Yes No	Depth (inches):		
	Depth (inches):		
	Depth (inches): W	letland Hydrology Prese	nt? Yes No
(includes capillary fringe)  Describe Recorded Data (stream gauge, monitor	l oring well, aerial photos, previous inspectior	ns), if available:	
		,	
Remarks:			

Sampling Point: W-IJ21-UF	Sampling	Point: W	/-IJ21-UF
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	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Acer rubrum	25	<b>✓</b>	FAC	That Are OBL, FACW, or FAC: 4 (A)
2. Liriodendron tulipifera	25		FACU	(/,
3. Quercus rubra	5		FACU	Total Number of Dominant Species Across All Strata: 7 (B)
3. 440.040 .45.4			<u>rACU</u>	Species Across All Strata: (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:57 (A/B)
6				
7				Prevalence Index worksheet:
	55	= Total Cov	er	Total % Cover of: Multiply by:
50% of total cover: _ 27.5	20% of	total cover:	11	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1. Ligustrum sinense	12	~	FACU	FAC species x 3 =
2. Quercus alba	10	~		FACU species x 4 =
			FACU_	UPL species x 5 =
3				
4				Column Totals: (A) (B)
5	-			Prevalence Index = B/A =
6				
7				Hydrophytic Vegetation Indicators:
				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov	er	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 11	20% of	total cover:	4.4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5'				• • • • • • • • • • • • • • • • • • • •
1. Acer rubrum	5		F <u>AC</u>	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2				
3				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6				more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less
				than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall.
10				my tail.
11				Herb - All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>2.5</u>	20% of	total cover:	1	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size: 15' )				height.
1. Smilax rotundifolia	15		FAC	
2. Toxicodendron radicans	10	<b>✓</b>	FAC	
3.				
4				Hydrophytic
5				Vegetation
		= Total Cov	_	Present? Yes No
50% of total cover: <u>12.5</u>	20% of	total cover:	5	
Remarks: (Include photo numbers here or on a separate s	heet.)			
` .	,			

Depth	Matrix	to the depth	needed to document the indicat Redox Features	or or commit the a	bsence of maican	лъ.,	
(inches)	Color (moist)	%	Color (moist) % Type	e <sup>1</sup> Loc <sup>2</sup> Te	xture	Remarks	
0-8	2.5y 4/4	100			LS		
8-16	2.5y 4/6	100		Sa	CILo_		
		. <del></del> _					
		. <del></del>					
	_						
		letion, RM=Re	educed Matrix, MS=Masked Sand	Grains. <sup>2</sup> Loca	ation: PL=Pore Lin		3
ydric Soil I			D 1 0 ( (0 <del>7</del> )		Indicators for P		
Histosol	(A1) pipedon (A2)		<ul><li>Dark Surface (S7)</li><li>Polyvalue Below Surface (S8)</li></ul>	\ (MI DA 147 148\		A10) <b>(MLRA 1</b> 4 e Redox (A16)	47)
Histic Ep Black Hi			Thin Dark Surface (S9) (MLR		Coast Praine	, ,	
	n Sulfide (A4)		Loamy Gleyed Matrix (F2)	A 141, 140)		oodplain Soils (	F19)
	Layers (A5)		Depleted Matrix (F3)		(MLRA 13		,
	ck (A10) (LRR N)		Redox Dark Surface (F6)			v Dark Surface	(TF12)
	Below Dark Surface	e (A11)	Depleted Dark Surface (F7)			in in Remarks)	
	ark Surface (A12)		Redox Depressions (F8)				
_ Sandy M	lucky Mineral (S1) (L	.RR N,	Iron-Manganese Masses (F12	2) <b>(LRR N,</b>			
MLRA	147, 148)		MLRA 136)				
	leyed Matrix (S4)		Umbric Surface (F13) (MLRA			ydrophytic vege	
	edox (S5)		Piedmont Floodplain Soils (F <sup>2</sup>			ology must be p	
	Matrix (S6)		Red Parent Material (F21) (M	LRA 127, 147)	unless disturb	ed or problema	atic.
	_ayer (if observed):						
Type:	ches):		_	Hyc	Iric Soil Present?	Yes	No 🗸
emarks:			<del>-</del>	1190			
Citiatiks.							

Project/Site: MVP	City/County: Pittsylvania Sampling Date: 03/30					
Applicant/Owner: MVP			Sampling Point: W-H3			
Investigator(s): A.Stott, A.Grech, H. Heist		<u></u>				
Landform (hillslope, terrace, etc.):Toe-slope	<sub>ne):</sub> Concave	Slope (%): 0-3%				
Subregion (LRR or MLRA): LRRP						
Soil Map Unit Name: Chenneby-Toccoa comple	_					
Are climatic / hydrologic conditions on the site typical	al for this time of year? Yes No	(If no, explain in Rem	narks.)			
Are Vegetation, Soil, or Hydrology _	significantly disturbed? Are "Norma	I Circumstances" pre	sent? Yes V No			
Are Vegetation, Soil, or Hydrology _						
SUMMARY OF FINDINGS – Attach site						
Hudrophytic Vegetation Present?	No. In the Samulad Area					
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes	Is the Sampled Area		1			
Wetland Hydrology Present?	No within a Wetland?	Yes	No			
Remarks:						
Cowardin Code: PEM; HGM: Slope; WT:	RPWWD; In cow pasture					
Information listed on this form represents	the data collected in 2015. The wetlan	d was revisited o	n 11/01/2019. Presence			
of wetland hydrology, hydrophytic vegeta						
Supplement delineation methodology.	, , , , , , , , , , , , , , , , , , ,	9	3			
HYDROLOGY						
Wetland Hydrology Indicators:		Secondary Indicator	rs (minimum of two required)			
Primary Indicators (minimum of one is required; ch	neck all that apply)	Surface Soil Cra	_			
✓ Surface Water (A1)	True Aquatic Plants (B14)		ated Concave Surface (B8)			
High Water Table (A2)	Hydrogen Sulfide Odor (C1)	Drainage Patter				
	Moss Trim Line					
Water Marks (B1)	<ul><li>Oxidized Rhizospheres on Living Roots (C3)</li><li>Presence of Reduced Iron (C4)</li></ul>					
Sediment Deposits (B2)	Recent Iron Reduction in Tilled Soils (C6)	Dry-Season Water Table (C2) Crayfish Burrows (C8)				
Drift Deposits (B3)	Thin Muck Surface (C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	Other (Explain in Remarks)		ssed Plants (D1)			
Iron Deposits (B5)		Geomorphic Po	osition (D2)			
Inundation Visible on Aerial Imagery (B7)		Shallow Aquitar				
Water-Stained Leaves (B9)		Microtopographic Relief (D4)				
Aquatic Fauna (B13)		FAC-Neutral Te	est (D5)			
Field Observations:						
Surface Water Present? Yes No	Depth (inches):1"					
Water Table Present? Yes No	Depth (inches):6"					
		Hydrology Present?	Yes No			
(includes capillary fringe)		rilable				
Describe Recorded Data (stream gauge, monitorin	ig well, aeriai priotos, previous inspections), il avi	allable:				
Remarks:						

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-H3

	Absolute	Dominant I	ndicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')	% Cover	Species?	Status	Number of Dominant Species
1				That Are OBL, FACW, or FAC: 1 (A)
2				T. 111 (5 )
3				Total Number of Dominant Species Across All Strata:  1 (B)
				Opecies Across Air Strata.
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100% (A/B)
6				Prevalence Index worksheet:
7				
		= Total Cove		Total % Cover of: Multiply by:
50% of total cover: 0	20% of	total cover:_	0	OBL species x 1 =
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =
1				FAC species x 3 =
2				FACU species x 4 =
3				UPL species x 5 =
				Column Totals: (A) (B)
4				( )
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				2 - Dominance Test is >50%
9				<del></del>
	_	= Total Cove	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:0		total cover:	_	4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )		_		data in Remarks or on a separate sheet)
1. Juncus tenuis	40	<b>/</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2 Persicaria sp.	20		ND	
				<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3. Juncus effusus	10		FACW	be present, unless disturbed or problematic.
4. Carex lurida	10		OBL	Definitions of Four Vegetation Strata:
5. Holcus lanatus	10		FAC	
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8.				noight.
				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
		= Total Cove		of size, and woody plants less than 3.28 ft tall.
50% of total cover: 45	20% of	total cover:_	18	Woody vine – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1				
2				
3				
4				Hydrophytic
5	^			Vegetation Present? Yes No
		= Total Cove		riesent? res No
50% of total cover:0	20% of	total cover:_	0	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND- not determined				
*Vegetation not Id'd down to the species level is	not inclu	ded in the	domina	ance test
-				

SOIL Sampling Point: W-H3

Profile Desc	ription: (Describe t	o the depth	needed to docur	nent the i	ndicator	or confirm	the absence	e of indicators.)
Depth	Matrix			x Features	3			
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20"	10YR 5/1	90	7.5YR 4/6	10	С	PL/M	SCL	
						- (		
							r	
							r	
						- (		
							r	
							r	
								-
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=R	Reduced Matrix, MS	S=Masked	Sand Gr	ains.	<sup>2</sup> Location: I	PL=Pore Lining, M=Matrix.
Hydric Soil I	ndicators:						Indio	cators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	e (S7)			:	2 cm Muck (A10) (MLRA 147)
	ipedon (A2)		Polyvalue Be	low Surfac	ce (S8) <b>(N</b>	/ILRA 147,	148)	Coast Prairie Redox (A16)
Black His	stic (A3)		Thin Dark Su	ırface (S9)	(MLRA	147, 148)		(MLRA 147, 148)
Hydroge	n Sulfide (A4)		Loamy Gleye	ed Matrix (I	F2)			Piedmont Floodplain Soils (F19)
Stratified	Layers (A5)		Depleted Ma	trix (F3)				(MLRA 136, 147)
2 cm Mu	ck (A10) (LRR N)		Redox Dark					Very Shallow Dark Surface (TF12)
	Below Dark Surface	(A11)	Depleted Da					Other (Explain in Remarks)
	rk Surface (A12)		Redox Depre					
	lucky Mineral (S1) <b>(L</b>	RR N,	Iron-Mangan		es (F12) <b>(</b>	LRR N,		
	147, 148)		MLRA 13				2	
	leyed Matrix (S4)		Umbric Surfa					dicators of hydrophytic vegetation and
-	edox (S5)		Piedmont Flo					etland hydrology must be present,
	Matrix (S6)		Red Parent N	Material (F	21) <b>(MLR</b>	A 127, 147	<b>')</b> u	nless disturbed or problematic.
	ayer (if observed):							
Туре:								
Depth (inc	ches):		<u> </u>				Hydric So	il Present? Yes V No
Remarks:								



Photograph Direction NW

Date: 03/30/2015

Comments: 2015 wetland delineation.



Photograph Direction North

Date: 11/01/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP	City/0	County: Pittsylvania		Sampling Date: 03/30/2015	
Applicant/Owner: MVP		•		Sampling Point: W-H3 UPL	
Investigator(s): A. Stott, A. Grech, H	I. Heist Sect	ion Township Range N/A			
Landform (hillslope, terrace, etc.): Toe-s				Slone (%): 0-3%	
Subregion (LRR or MLRA): LRRP				Slope (%) NAD 83	
Soil Map Unit Name: Chenneby-Toccoa				·	
Are climatic / hydrologic conditions on the				_	
Are Vegetation, Soil, or H	lydrology significantly distu	rbed? Are "Normal (	Circumstances" p	oresent? Yes No	
Are Vegetation, Soil, or H	lydrology naturally problem	natic? (If needed, ex	plain any answe	rs in Remarks.)	
SUMMARY OF FINDINGS – Att	tach site map showing sar	mpling point location	ns, transects	, important features, etc.	
Hydrophytic Vegetation Present?	Yes No				
Hydric Soil Present?	Yes No	Is the Sampled Area		🗸	
Wetland Hydrology Present?	Yes No	within a Wetland?	Yes	No	
Remarks:					
Upland plot					
HYDROLOGY					
Wetland Hydrology Indicators:			Secondary Indica	tors (minimum of two required)	
Primary Indicators (minimum of one is re	equired: check all that apply)	<del>-</del>	Surface Soil		
Surface Water (A1)	True Aquatic Plants		Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)	Hydrogen Sulfide Oc		Drainage Pa		
Saturation (A3)		res on Living Roots (C3)	Moss Trim Li		
Water Marks (B1)	Presence of Reduce		Dry-Season Water Table (C2)		
Sediment Deposits (B2)	Recent Iron Reduction				
Drift Deposits (B3)	Thin Muck Surface (		Saturation Visible on Aerial Imagery (C9)		
Algal Mat or Crust (B4)	Other (Explain in Re			tressed Plants (D1)	
Iron Deposits (B5)		,		Position (D2)	
Inundation Visible on Aerial Imager	ry (B7)		Shallow Aqui	` ,	
Water-Stained Leaves (B9)				phic Relief (D4)	
Aquatic Fauna (B13)			FAC-Neutral	Test (D5)	
Field Observations:					
Surface Water Present? Yes	No Depth (inches):				
Water Table Present? Yes	No Depth (inches):				
	No Depth (inches):		/drology Presen	it? Yes No	
(includes capillary fringe)					
Describe Recorded Data (stream gauge	e, monitoring well, aerial photos, pre	evious inspections), if avail	able:		
Remarks:					
Tromano.					

#### VEGETATION (Four Strata) - Use scientific names of plants.

\_\_)

50% of total cover: \_\_\_0

50% of total cover: \_ 0

30'

Sapling/Shrub Stratum (Plot size: 15')

Tree Stratum (Plot size: \_

Herb Stratum (Plot size:

1. Trifolium repens

2. Dactylis glomerata

3. Solanum carolinense

4. Lespedeza cuneata

Absolute Dominant Indicator

% Cover Species? Status

\_ = Total Cover

\_ 20% of total cover:\_\_ 0

0 \_ = Total Cover

20% of total cover:

75 = Total Cover

0 = Total Cover

20% of total cover:

10

10

50% of total cover: 37.5 20% of total cover: 15

**FACU** 

**FACU** 

**FACU** 

**FACU** 

Sampling Point: W-H3 UPL **Dominance Test worksheet: Number of Dominant Species** 0 \_\_\_ (A) That Are OBL, FACW, or FAC: **Total Number of Dominant** 2 \_\_ (B) Species Across All Strata: Percent of Dominant Species 0% (A/B) That Are OBL, FACW, or FAC: Prevalence Index worksheet: Total % Cover of: Multiply by: OBL species \_\_\_\_ x 1 = \_\_\_\_ FACW species \_\_\_\_\_ x 2 = \_\_\_\_ FAC species \_\_\_\_\_ x 3 = \_\_\_\_ FACU species \_\_\_\_\_ x 4 = \_\_\_\_ UPL species \_\_\_\_\_ x 5 = \_\_\_\_ Column Totals: \_\_\_\_\_ (A) \_\_\_\_\_ (B) Prevalence Index = B/A = Hydrophytic Vegetation Indicators: \_\_\_ 1 - Rapid Test for Hydrophytic Vegetation \_\_\_ 2 - Dominance Test is >50% \_\_\_ 3 - Prevalence Index is ≤3.0<sup>1</sup> \_\_\_ 4 - Morphological Adaptations<sup>1</sup> (Provide supporting data in Remarks or on a separate sheet) Problematic Hydrophytic Vegetation<sup>1</sup> (Explain) <sup>1</sup>Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. **Definitions of Four Vegetation Strata:** Tree - Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/Shrub - Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb - All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vine - All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Yes \_\_\_\_ No \_\_\_ Present?

Remarks: (	Include	photo	numbers	here	or on	a se	parate	sheet.)
------------	---------	-------	---------	------	-------	------	--------	---------

Woody Vine <u>Stratum</u> (Plot size: \_\_\_\_\_\_)

ND- not determined

50% of total cover: 0

<sup>\*</sup> vegetation not Id'd down to species level is not included in the dominance test

Sampling Point: W-H3 UPL

SOIL

(inches)         Color (moist)         %         Color (moist)           0-2"         10YR 4/2         100		1 - 2	T	Describe
	% Type <sup>1</sup>	Loc <sup>2</sup>	Texture SL	Remarks
	<del></del>		<del></del>	
2-12" 10YR 4/1 85 7.5YR 4/6	15 C	<u>M</u>	SL	
	<del></del>		<del></del>	
			<del></del>	
ype: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=N	Masked Sand G	Frains.	<sup>2</sup> Location: PL=Po	ore Lining, M=Matrix.
ydric Soil Indicators:				for Problematic Hydric Soils <sup>3</sup> :
_ Histosol (A1) Dark Surface (S				Muck (A10) <b>(MLRA 147)</b>
_ Histic Epipedon (A2) Polyvalue Belov				Prairie Redox (A16)
Black Histic (A3) Thin Dark Surfa		147, 148)		.RA 147, 148)
_ Hydrogen Sulfide (A4) Loamy Gleyed № _ Stratified Layers (A5) Depleted Matrix				ont Floodplain Soils (F19)
_ Stratified Layers (A5)	. ,			.RA 136, 147) Shallow Dark Surface (TF12)
Depleted Below Dark Surface (A11)  Depleted Depleted Dark Surface (A11)	, ,			(Explain in Remarks)
Thick Dark Surface (A12) Redox Depressi			••	(=xprain in remaine)
Sandy Mucky Mineral (S1) (LRR N, Iron-Manganese		(LRR N,		
MLRA 147, 148) MLRA 136)				
_ Sandy Gleyed Matrix (S4) Umbric Surface	e (F13) <b>(MLRA 1</b>	36, 122)	<sup>3</sup> Indicato	rs of hydrophytic vegetation and
Sandy Redox (S5) Piedmont Flood				I hydrology must be present,
Stripped Matrix (S6) Red Parent Mat	terial (F21) <b>(ML</b>	RA 127, 147)	unless	disturbed or problematic.
estrictive Layer (if observed):				
Type:				
Depth (inches):			Hydric Soil Pres	sent? Yes 🔽 No
emarks:				

Project/Site: MVP		City/C	ounty: Pittsylvania		Sampling Date: 08/20/2015
Applicant/Owner: MVP		,	,		_ Sampling Point: W-MM3
Investigator(s): A. Grech, A	. Stott, M. Whitt	ten Section			
Landform (hillslope, terrace, et					Slone (%): 2-4%
Subregion (LRR or MLRA): L					Slope (%) NAD 83
			_		
Soil Map Unit Name: Madisc					
Are climatic / hydrologic condit		•			
Are Vegetation, Soil	, or Hydrology	/ significantly disturb	oed? Are "Normal Ci	ircumstances" pr	esent? Yes No
Are Vegetation, Soil	, or Hydrology	/ naturally problema	itic? (If needed, exp	lain any answer	s in Remarks.)
SUMMARY OF FINDING	GS – Attach si	te map showing sam	pling point locations	s, transects,	important features, etc.
Lludrophytic Variation Drag	ent? Yes	✓ No.			
Hydrophytic Vegetation Present?	Yes Yes	4	Is the Sampled Area		
Wetland Hydrology Present?	_	. 1	within a Wetland?	Yes	No
Remarks:					
Cowardin Code: PSS H	GIVI: riverine V	WI: RPWWD			
Information listed on this	form represen	ts the data collected in	n 2015. The wetland v	vas revisited	on 11/20/2019. Presence
of wetland hydrology, hy Supplement delineation	methodology.	tation, and nydric soils	s was confirmed using	the USACE	EIVIP Regional
HYDROLOGY			0.		ore (minimum of two required)
Wetland Hydrology Indicate  Primary Indicators (minimum		abook all that apply)			ors (minimum of two required)
	or one is required;			_ Surface Soil C	etated Concave Surface (B8)
Surface Water (A1) High Water Table (A2)		True Aquatic Plants (I	•		` ,
Saturation (A3)		✓ Oxidized Rhizosphere		_ Drainage Patt Moss Trim Lir	
Water Marks (B1)		Presence of Reduced	• , , —	<del>_</del> '	Vater Table (C2)
Sediment Deposits (B2)		Recent Iron Reduction	` '	Crayfish Burro	,
Drift Deposits (B3)		Thin Muck Surface (C		_ ′	ible on Aerial Imagery (C9)
Algal Mat or Crust (B4)		Other (Explain in Ren			essed Plants (D1)
Iron Deposits (B5)			· —	Geomorphic F	` ,
Inundation Visible on Ae	rial Imagery (B7)		_	_ Shallow Aquit	` '
Water-Stained Leaves (E			<u> </u>		phic Relief (D4)
Aquatic Fauna (B13)	-,			_ FAC-Neutral	
Field Observations:				<del>_</del>	. ,
Surface Water Present?	Yes No _	✓ Depth (inches):			
Water Table Present?		Depth (inches):			
Saturation Present?			O" Wetland Hyd	drology Present	? Yes 🗸 No
(includes capillary fringe)  Describe Recorded Data (stre	eam gauge monito	ring well serial photos pre	vious inspections) if availal	hle:	
Describe Necorded Data (stre	sam gauge, monito	ring well, aerial priotos, pre	vious irispections), ii avaliai	DIC.	
Remarks:					
Connects to S-OO1					

<u>Free Stratum</u> (Plot size: 30' )	Absolute	Dominant	Indicator	Dominance Test worksheet:	
		Species?	Status	Number of Dominant Species	
Liriodendron tulipifera	5		FACU	That Are OBL, FACW, or FAC: 3	(A)
				Total Number of Dominant	
				Species Across All Strata: 5	(B)
·					
<u> </u>				Percent of Dominant Species That Are OBL, FACW, or FAC: 60	(A/B)
				mat Ale OBE, I AOW, OF AO.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
				Prevalence Index worksheet:	
	5	= Total Cov		Total % Cover of: Multiply by	<u>:</u>
50% of total cover: 2.5				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )	2070 0.	total covor.		FACW species x 2 =	
Carpinus caroliniana	15	<b>~</b>	FAC	FAC species x 3 =	
Lindera benzoin	15	<u> </u>		FACU species x 4 =	
	15	<del></del>	FAC	UPL species x 5 =	
Lonicera tatarica			FACU_	' <u></u>	
Liquidambar styraciflua	5	· ———	F <u>AC</u>	Column Totals: (A)	(B)
i				Prevalence Index = B/A =	
. <u> </u>				Hydrophytic Vegetation Indicators:	
				, , , , , , , , , , , , , , , , , , ,	2
·				<ul><li>1 - Rapid Test for Hydrophytic Vegetation</li><li>✓ 2 - Dominance Test is &gt;50%</li></ul>	1
		· '-			
	50	= Total Cov	er	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover: 25				4 - Morphological Adaptations <sup>1</sup> (Provide	
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate she	et)
Carex lurida	5	<b>✓</b>	OBL	Problematic Hydrophytic Vegetation <sup>1</sup> (Ex	plain)
	-	• •	<del></del>		
2.		·		<sup>1</sup> Indicators of hydric soil and wetland hydrolog	gy must
3				be present, unless disturbed or problematic.	
k				Definitions of Four Vegetation Strata:	
5		· ·		Tree – Woody plants, excluding vines, 3 in. (	7 6 cm) o
ò				more in diameter at breast height (DBH), rega	
<b>.</b>		·		height.	
s				Sapling/Shrub – Woody plants, excluding vii	عما عمد
)				than 3 in. DBH and greater than or equal to 3	5.28 ft (1
0				m) tall.	
1				<b>Herb</b> – All herbaceous (non-woody) plants, re	aardlass
	5	= Total Cov	er	of size, and woody plants less than 3.28 ft tal	
50% of total cover: <u>2.5</u>					
Voody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines greater than 3 height.	3.28 ft in
				neight.	
. <u> </u>					
				Hydrophytic	
				Vegetation	
]. 	0		_	1	_

Sampling Point: W-MM3

0040
narks
_
Matrix.
atic Hydric Soils <sup>3</sup> :
LRA 147)
(A16)
Soils (F19)
Surface (TF12)
marks)
tic vegetation and
ist be present,
oblematic.
✓ No

# **Wetland Photograph Page**

#### Wetland ID W-MM3



Photograph Direction NNE

Date: 08/20/2015

Comments: 2015 wetland delineation.



Photograph Direction NNE

Date: 11/20/19

Comments: 2019 wetland delineation confirmation.

Project/Site: MVP		Cit	ty/County: Pittsylvania		Sampling Date: 08/20/2015	
Applicant/Owner: MVP		<u>.</u>			Sampling Point: W-MM3 UPL	
Investigator(s): A. Grech, A. Stott,	M. Whitten	Se	ection, Township, Range: N			
Landform (hillslope, terrace, etc.): hills					Slope (%): 3-6%	
Subregion (LRR or MLRA): LRRP					NAD 83	
Soil Map Unit Name: Madison fine s			-			
Are climatic / hydrologic conditions on the		-				
Are Vegetation, Soil, or	Hydrology	significantly dis	sturbed? Are "Norma	I Circumstances"	present? Yes No	
Are Vegetation, Soil, or	Hydrology	naturally proble	ematic? (If needed,	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS – A	ttach site m	nap showing s	ampling point location	ons, transects	s, important features, etc.	
Hydrophytic Vegetation Present?	Yes 🗸	No				
Hydric Soil Present?	Yes		Is the Sampled Area	.,	•/	
Wetland Hydrology Present?	Yes		within a Wetland?	Yes	No	
Remarks:						
HYDROLOGY						
Wetland Hydrology Indicators:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of one is	required chec	k all that apply)		Surface Soil	_	
Surface Water (A1)	<u>roquirou, orioo</u>	True Aquatic Plan	nts (B14)	· <del></del>	getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide		Drainage Patterns (B10)		
Saturation (A3)			heres on Living Roots (C3)			
Water Marks (B1)		Presence of Redu	= : :	Dry-Season Water Table (C2)		
Sediment Deposits (B2)	<u> </u>	Recent Iron Redu	ction in Tilled Soils (C6)	Crayfish Burrows (C8)		
Drift Deposits (B3)	_	Thin Muck Surface	e (C7)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in	Remarks)	Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic		
Inundation Visible on Aerial Image	ery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)					aphic Relief (D4)	
Aquatic Fauna (B13)			,	FAC-Neutra	Test (D5)	
Field Observations:	🗸	D 41 (1 1 )				
		Depth (inches):_				
		_ Depth (inches):_				
Saturation Present? Yes (includes capillary fringe)	No	_ Depth (inches):_	Wetland I	Hydrology Presei	nt? Yes No	
Describe Recorded Data (stream gaug	ge, monitoring v	well, aerial photos,	previous inspections), if ava	ailable:		
Demodes						
Remarks:						
					J	

## **VEGETATION** (Four Strata) – Use scientific names of plants.

Sampling Point: W-MM3 UPL

Tree Stratum (Plot size: 30'	Absolute	Dominant		Dominance Test worksheet:	
Tice offatarii (Flot size)		Species?		Number of Dominant Species	
1. Acer rubrum	30		FAC	That Are OBL, FACW, or FAC: 4	_ (A)
2. Liquidambar styraciflua	10		FAC	Total Number of Dominant	
3. Liriodendron tulipifera	5		FACU_	Species Across All Strata: 4	(B)
4				Develop of Development Conscion	
5				Percent of Dominant Species That Are OBL, FACW, or FAC: 100	(A/B)
6				mat/110 GB2, 1716VV, 01 1716.	_ (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
7			· · · · · · · · · · · · · · · · · · ·	Prevalence Index worksheet:	
	45	= Total Cov	/er	Total % Cover of: Multiply by:	
50% of total cover: <u>22.5</u>				OBL species x 1 =	
Sapling/Shrub Stratum (Plot size: 15' )				FACW species x 2 =	
1. Carpinus caroliniana	10	<b>/</b>	FAC	FAC species x 3 =	
· · · · · · · · · · · · · · · · · · ·			1710	FACU species x 4 =	
2			· <del></del>	UPL species x 5 =	
3			· ——	Column Totals: (A)	
4				Column Totals (A)	(D)
5				Prevalence Index = B/A =	
6				Hydrophytic Vegetation Indicators:	
7				1 - Rapid Test for Hydrophytic Vegetation	
8				✓ 2 - Dominance Test is >50%	
9					
	4.0	= Total Cov	ver	3 - Prevalence Index is ≤3.0 <sup>1</sup>	
50% of total cover:5				4 - Morphological Adaptations <sup>1</sup> (Provide so	
Herb Stratum (Plot size: 5' )				data in Remarks or on a separate shee	′
1. Parathelypteris noveboracensis	70	<b>/</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Exp	lain)
2 Polystichum acrostichoides	10	_	FACU		
<del></del>				<sup>1</sup> Indicators of hydric soil and wetland hydrology	/ must
3		-	. ——	be present, unless disturbed or problematic.	
4			· ——	Definitions of Four Vegetation Strata:	
5				Tree – Woody plants, excluding vines, 3 in. (7.	6 cm) or
6				more in diameter at breast height (DBH), regain	
7				height.	
8				On the violent. We also had a seed of a seed of	
9				Sapling/Shrub – Woody plants, excluding vine than 3 in. DBH and greater than or equal to 3.3	
10				m) tall.	2011(1
11.					
	80	Total Cox	· · ·	<b>Herb</b> – All herbaceous (non-woody) plants, reg of size, and woody plants less than 3.28 ft tall.	jardless
50% of total cover: 40		= Total Cover 20% of total cover: 16		of size, and woody plants less than 5.20 it tall.	
	20 /0 01	total cover		Woody vine – All woody vines greater than 3.	28 ft in
Woody Vine Stratum (Plot size: 15' )				height.	
1					
2		-			
3		-			
4				Hydrophytic	
5				Vegetation	
	0	= Total Cov	er er	Present? Yes V No	•
50% of total cover:0	20% of	total cover	. 0		
Remarks: (Include photo numbers here or on a separate s	heet.)				
	,				

Sampling Point: W-MM3 UPL

SOIL

Profile Desc	ription: (Describe	to the dept	h needed to docun	nent the i	ndicator o	or confirm	the absence	e of indicat	ors.)		
Depth	Matrix		Redox	k Features	3						
(inches)	Color (moist)	%	Color (moist)	%	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	_	Remark	(S	
0-3"	10yr 4/3	100					L				
3-12"	10yr 4/4	100					CL				
12-20"	10yr 6/4	100					CL				
								_			
			_			·					
						-					
								_			
	-										
	oncentration, D=Depl	letion, RM=	Reduced Matrix, MS	S=Masked	Sand Gra	ins.		PL=Pore Lin			3
Hydric Soil			5 . 6 .	(O-)						Hydric Soils	:
Histosol	(A1) Dipedon (A2)		Dark Surface		oo (CO) <b>/M</b>	I D A 447		2 cm Muck (			
Black Hi			Polyvalue Be Thin Dark Su				140)	Coast Prairie (MLRA 14		0)	
	en Sulfide (A4)		Loamy Gleye	. ,	•	+1, 140)		Piedmont FI		ils (F19)	
	d Layers (A5)		Depleted Mat		-/		_	(MLRA 1		()	
	ick (A10) (LRR N)		Redox Dark S		6)			Very Shallov		ace (TF12)	
	d Below Dark Surface	e (A11)	Depleted Dar					Other (Expla	ain in Remai	ks)	
	ark Surface (A12)		Redox Depre								
	Mucky Mineral (S1) (L	.RR N,	Iron-Mangane		es (F12) <b>(L</b>	RR N,					
	<b>A 147, 148)</b> Gleyed Matrix (S4)		MLRA 130 Umbric Surfa	•	MI DA 12	s 122\	3 <sub>1r</sub>	adjectors of h	vdrophytic v	egetation and	,
	Redox (S5)		Piedmont Flo					vetland hydro			1
	Matrix (S6)		Red Parent M					ınless disturk			
	Layer (if observed):			`		•			•		
Type:											
Depth (inc	ches):						Hydric Sc	il Present?	Yes	No <u> </u>	
Remarks:											

Project/Site: MVP		City/C	county: Pittsylvania		Sampling Date: 05/03/2016		
Applicant/Owner: MVP					Sampling Point: W-IJ22-PEM		
Investigator(s): E. Foster, J. Niergarth, B. Shrotenboer Section, Township, Range: N/A							
Landform (hillslope, terrace, etc.): F			· · · · · ·		Slone (%): 1		
Subregion (LRR or MLRA): LRR P			Long: <u>-79</u>				
Soil Map Unit Name: 41a-Wehadke							
Are climatic / hydrologic conditions or		•			,		
Are Vegetation, Soil,	or Hydrology	significantly distur					
Are Vegetation, Soil,	or Hydrology	naturally problemate	atic? (If needed,	explain any answe	rs in Remarks.)		
SUMMARY OF FINDINGS -	Attach site n	nap showing san	npling point location	ons, transects	, important features, etc.		
Hydrophytic Vegetation Present?	Yes 🗸	No					
Hydric Soil Present?	Yes V	No	Is the Sampled Area	V V	No		
Wetland Hydrology Present?	Yes 🗸	No	within a Wetland?	res•	NO		
Remarks: Cowardin Code: F	PEM	HGM: Riverine	Water Type:	RPWWD			
HYDROLOGY							
Wetland Hydrology Indicators:					ators (minimum of two required)		
Primary Indicators (minimum of one	-		(D.4.4)	Surface Soil			
<ul><li>Surface Water (A1)</li><li>High Water Table (A2)</li></ul>		True Aquatic Plants (			getated Concave Surface (B8)		
Saturation (A3)		Hydrogen Sulfide Od	es on Living Roots (C3)	Drainage Pa			
Water Marks (B1)		Presence of Reduced	=				
Sediment Deposits (B2)	_	Recent Iron Reduction	` '	Dry-Season Water Table (C2) Crayfish Burrows (C8)			
Drift Deposits (B3)	<u> </u>	Thin Muck Surface (0		Saturation Visible on Aerial Imagery (C9)			
Algal Mat or Crust (B4)		Other (Explain in Rer	marks)	Stunted or S	tressed Plants (D1)		
Iron Deposits (B5)				<del></del>	Position (D2)		
Inundation Visible on Aerial Ima	igery (B7)			Shallow Aqu			
Water-Stained Leaves (B9)					aphic Relief (D4)		
✓ Aquatic Fauna (B13)  Field Observations:				FAC-Neutral	Test (D5)		
Surface Water Present? Yes	✓ No	_ Depth (inches):	0				
Water Table Present? Yes			2				
Saturation Present? Yes		Depth (inches):	0 Wetland I	Hydrology Preser	nt? Yes ✔ No		
(includes capillary fringe)		- , , , ,					
Describe Recorded Data (stream ga	luge, monitoring v	well, aerial photos, pre	evious inspections), if ava	allable:			
Remarks:							
Saturated to the surface							

Sampling Point: W-IJ22-PEM

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1				That Are OBL, FACW, or FAC: 3 (A)
2				(,
				Total Number of Dominant
3				Species Across All Strata:3 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC: 100 (A/B)
6				
7				Prevalence Index worksheet:
	0	= Total Cov	or	Total % Cover of: Multiply by:
50% of total cover: 0		total cover:	_	OBL species x 1 =
	20 /6 01	iolai covei.		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15' )	4			
1. Quercos phellos	4		F <u>AC</u>	FAC species x 3 =
2. Betula nigra	3		FACW_	FACU species x 4 =
3				UPL species x 5 =
4				Column Totals: (A) (B)
5		-		Prevalence Index = B/A =
6		-		Hydrophytic Vegetation Indicators:
7				1 - Rapid Test for Hydrophytic Vegetation
8				✓ 2 - Dominance Test is >50%
9				
	7	= Total Cov	or	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover: 3.5		total cover:		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
-	20 /6 01	iolai covei.		data in Remarks or on a separate sheet)
Tierb Stratum (Flot size.	00			Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
1. Glyceria striata	60		OBL	
2. Carex lurida	15		OBL	1
3. Juncus effuses	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Peltandra virginica	1		OBL	
5. Carex stricta	10		OBL	Definitions of Four Vegetation Strata:
				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
6. Carex albolutescens	10		F <u>ACW</u>	more in diameter at breast height (DBH), regardless of
7				height.
8				
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
10		-		
11	404			Herb – All herbaceous (non-woody) plants, regardless
		= Total Cov		of size, and woody plants less than 3.28 ft tall.
50% of total cover: <u>50.5</u>	20% of	total cover:	20.2	<b>Woody vine</b> – All woody vines greater than 3.28 ft in
Woody Vine Stratum (Plot size:15')				height.
1				_
2				
3				
4		-		Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes No
50% of total cover: 0	20% of	total cover:		
Remarks: (Include photo numbers here or on a separate s	heet.)			

Sampling Point: W-IJ22-PEM

SOIL

Profile Desc	ription: (Describe to	the depth	needed to docum	ent the ir	ndicator	or confirm	the absence	of indicators.)
Depth	Matrix			Features		. 2		-
(inches)	Color (moist)	<u>%</u> _	Color (moist)	<u>%</u>	Type <sup>1</sup>	Loc <sup>2</sup>	Texture	Remarks
0-20	2.5Y 5/2		7.5YR 4/6	30_	С	M	SaCILo	
					-			
	<del></del>						<u> </u>	
<sup>1</sup> Type: C=Co	oncentration, D=Deple	etion. RM=R	educed Matrix. MS	=Masked	Sand Gra	ains.	<sup>2</sup> Location: Pl	L=Pore Lining, M=Matrix.
Hydric Soil I			<del></del>					ators for Problematic Hydric Soils <sup>3</sup> :
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)
	pipedon (A2)		Polyvalue Bel	ow Surfac	e (S8) <b>(N</b>	ILRA 147,	<b>148)</b> C	oast Prairie Redox (A16)
Black Hi			Thin Dark Sur			47, 148)		(MLRA 147, 148)
	n Sulfide (A4)		Loamy Gleyed		F2)		P	iedmont Floodplain Soils (F19)
	d Layers (A5) ick (A10) <b>(LRR N)</b>		<ul><li>Depleted Mate</li><li>Redox Dark S</li></ul>		8)		V	(MLRA 136, 147) ery Shallow Dark Surface (TF12)
	d Below Dark Surface	(A11)	Depleted Dark					ther (Explain in Remarks)
Thick Da	ark Surface (A12)		Redox Depres					,
	lucky Mineral (S1) <b>(Li</b>	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,		
	A 147, 148)		MLRA 136	-		0 400)	3, ,	
	Bleyed Matrix (S4) Ledox (S5)		Umbric Surface Piedmont Floor					icators of hydrophytic vegetation and tland hydrology must be present,
	Matrix (S6)		Red Parent M					land hydrology must be present, less disturbed or problematic.
	_ayer (if observed):			atoriai (i z	- · / <b>(</b>		1	oss distances of presidingle.
Type:	, ,							
	ches):		<u> </u>				Hydric Soil	Present? Yes V No No
Remarks:	•							

# Wetland Photograph Page

Wetland ID  $\underline{\text{W-IJ22-PEM}}_{\text{Date}} \underline{\text{05/03/201}}_{\text{6}}$ 



Photograph Direction NE

Comments:		

Project/Site: MVP			City/	County: Pittsylvania		Sampling Date: 05/03/2016	
Applicant/Owner: MVP						Sampling Point: W-IJ22-PEM-UP	
Investigator(s): E. Foster, J	. Niergai	rth, B. Sch	rotenboer <sub>Sect</sub>	tion, Township, Range: N			
Landform (hillslope, terrace, et						Slope (%): 3	
Subregion (LRR or MLRA): L						Datum: NAD 83	
Soil Map Unit Name: 41a-We							
Are climatic / hydrologic condit					<u></u>	<u> </u>	
			-			present? Yes No	
Are Vegetation, Soil							
Are Vegetation, Soil					explain any answe	,	
SUMMARY OF FINDIN	GS – Att	tach site r	nap showing sa	mpling point location	ons, transects	s, important features, etc.	
Hydrophytic Vegetation Pres	ent?	Yes	No 🗸				
Hydric Soil Present?		Yes		Is the Sampled Area within a Wetland?	Vos	No 🗸	
Wetland Hydrology Present?	•	Yes	No	within a wetiant:	165		
Remarks: Cowardin C	ode. Hbi	I AND	HGM:	Water Type:			
HYDROLOGY							
Wetland Hydrology Indicat	ors:				Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum		equired: che	ck all that apply)		Surface Soil		
Surface Water (A1)			_ True Aquatic Plants	(B14)	Sparsely Vegetated Concave Surface (B8)		
High Water Table (A2)			Hydrogen Sulfide O		Drainage Pa		
Saturation (A3)				eres on Living Roots (C3)	Moss Trim L		
Water Marks (B1)			Presence of Reduce	=	Dry-Season Water Table (C2)		
Sediment Deposits (B2)			Recent Iron Reducti	on in Tilled Soils (C6)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)		_	Thin Muck Surface	(C7)	Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)			Other (Explain in Re	emarks)	Stunted or S	tressed Plants (D1)	
Iron Deposits (B5)						Position (D2)	
Inundation Visible on Ae	_	y (B7)			Shallow Aqu		
Water-Stained Leaves (I	39)				· -	aphic Relief (D4)	
Aquatic Fauna (B13)				<b>,</b>	FAC-Neutral	Test (D5)	
Field Observations:	V	Na 🗸	Danth (inches)				
Surface Water Present? Water Table Present?			_ Depth (inches): Depth (inches):				
			Depth (inches): _ Depth (inches):		le dual a ser Duana	nt? Yes No_ 🗸	
Saturation Present? (includes capillary fringe)	res	NO	_ Depth (inches):	wetiand i	Hydrology Preser	nt? Yes No	
Describe Recorded Data (str	eam gauge	e, monitoring	well, aerial photos, pr	evious inspections), if ava	ailable:		
Remarks:							
Remarks.							

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1 Liriodendron tulipifera	30	V	FACU	That Are OBL, FACW, or FAC:3 (A)
2. Juniperus virginiana	20			(A)
	10		FACU_	Total Number of Dominant
3. Juglans nigra			FACU_	Species Across All Strata: 9 (B)
4				Percent of Dominant Species
5				That Are OBL, FACW, or FAC:33 (A/B)
6				(742)
7				Prevalence Index worksheet:
·	60	<del></del>		Total % Cover of: Multiply by:
700		= Total Cov		OBL species x 1 =
50% of total cover: 30	20% of	total cover	12	
Sapling/Shrub Stratum (Plot size: 15' )	_			FACW species x 2 =
1. Acer rubrum	5		FAC	FAC species x 3 =
2. Rubus allegheniensis	12	<b>~</b>	FACU_	FACU species x 4 =
3. Rosa multiflora	15	<u> </u>	FACU	UPL species x 5 =
4. Ligustrum sinense	10	-/	· · ·	Column Totals: (A) (B)
			FACU_	Goldmin Totalo: (F)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
		-		2 - Dominance Test is >50%
9				3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 21	20% of	total cover	8.4	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5'				
1. Microstegium viminium	20	<b>✓</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Galium sp.	5		UPL	
3. Rumex crispus	5	-	FAC	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	8			be present, unless disturbed or problematic.
4. Allium vineale	8		F <u>ACU</u>	Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
0	-	-		noight.
0		-		Sapling/Shrub - Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				<b>Herb</b> – All herbaceous (non-woody) plants, regardless
	38	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 19		total cover		
Woody Vine Stratum (Plot size: 15' )				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
1 Toxicodendron radicans	15	/	FAC	height.
**	-			
2. Lonicera japonica	13		FAC	
3				
4.				
5				Hydrophytic Vegetation
<u> </u>	28	Tatal Car		Present? Yes No
50% of total cover: 14		<ul><li>Total Cover total cover</li></ul>		
		total cover		
Remarks: (Include photo numbers here or on a separate s	noot.)			

Profile Desc	ription: (Describe t	o the depth	n needed to docum	nent the i	ndicator	or confirm	the absence	of indicato	rs.)	
Depth	Matrix		Redox	K Feature:	S					
(inches)	Color (moist)	%	Color (moist)	%	_Type <sup>1</sup>	Loc <sup>2</sup>	Texture		Remarks	3
0-2	7.5YR 4/4	100					Loam			
2-15	7.5YR 4/6	100					CILo			
15-20	7.5YR 4/6	60	7.5YR 5/8	10	С	М	Clay			_
			10YR 5/4	30	RM	M				
			101110/1		1 1141			-		
								-		
								-		
1Type: C=C	oncentration, D=Deple	etion RM-F	Reduced Matrix MS		I Sand Gr	aine	<sup>2</sup> Location: P	I –Pore Linir	na M–Matrix	v
Hydric Soil		elion, Kivi=r	veduced Matrix, Mc	=iviasket	i Sanu Gi	airis.				Aydric Soils <sup>3</sup> :
Histosol			Dark Surface	(\$7)				cm Muck (A		-
	pipedon (A2)		Polyvalue Be		ce (S8) <b>(N</b>	II RA 147.		con Muck (A		
Black Hi			Tolyvalde Be		. , .		0	(MLRA 14	,	5)
	en Sulfide (A4)		Loamy Gleye			, 170)	D	iedmont Flo		s (F19)
	d Layers (A5)		Depleted Mat		1 2)		_ '	(MLRA 130	•	3 (1 19)
	ick (A10) <b>(LRR N)</b>		Redox Dark S		.e)		\/	ery Shallow		00 (TE12)
	d Below Dark Surface	(Δ11)	Depleted Dar					other (Explai		, ,
	ark Surface (A12)	(7,11)	Redox Depre					Allici (Explai	II III Koman	(3)
	lucky Mineral (S1) <b>(L</b>	DD N	Iron-Mangane			IDDN				
	147, 148)	ixix i <b>v</b> ,	MLRA 136		63 (1 12) <b>(</b>	LIXIX IN,				
	Gleyed Matrix (S4)		Umbric Surfa		MIDA 12	6 122\	3Ind	icators of by	drophytic va	egetation and
	Redox (S5)		Piedmont Flo					tland hydrol		-
								-		
	Matrix (S6)  Layer (if observed):		Red Parent M	iateriai (F	21) (WLK	A 127, 147	) un	less disturbe	ed of problet	mauc.
Type:	Layer (ii observed).									
	ches):						Hydric Soil	Present?	Yes	No 🗸
Remarks:			<u> </u>				.,			
. tomanto.										

Project/Site: MVP		City/9	County: Pittsylvania		Sampling Date: 05/03/2016			
Applicant/Owner: MVP								
Investigator(s): E. Foster, J.	nvestigator(s): E. Foster, J. Niergarth, B. Schrotenboer Section, Township, Range: N/A							
• ,					Slope (%): 1			
Subregion (LRR or MLRA): LF					Datum: NAD 83			
Soil Map Unit Name: 41a-Weh			_					
Are climatic / hydrologic condition	* *	*						
					present? Yes No			
Are Vegetation, Soil	, or Hydrology	naturally problem	natic? (If needed,	explain any answe	ers in Remarks.)			
SUMMARY OF FINDING	3S – Attach site r	map showing sar	mpling point location	ons, transects	s, important features, etc.			
Hydrophytic Vegetation Prese	ent? Yes	No						
Hydric Soil Present?	Yes V		Is the Sampled Area within a Wetland?	V V	No			
Wetland Hydrology Present?			within a wetland?	res	NO			
Remarks: Cowardin Co		HGM: Riverine	Water Type:	RDWWD				
Cowardin Co	ide. FFO	riow. riverine	water Type.	NEVVVD				
HYDROLOGY								
Wetland Hydrology Indicato	ors:			Secondary Indica	ators (minimum of two required)			
Primary Indicators (minimum of		ck all that apply)		Surface Soil Cracks (B6)				
Surface Water (A1)	•	True Aquatic Plants	(B14)		getated Concave Surface (B8)			
High Water Table (A2)		- _ Hydrogen Sulfide Od		Drainage Pa				
Saturation (A3)	_		res on Living Roots (C3)	Moss Trim L				
Water Marks (B1)		Presence of Reduce	ed Iron (C4)	Dry-Season	Dry-Season Water Table (C2)			
Sediment Deposits (B2)		Recent Iron Reduction	on in Tilled Soils (C6)	Crayfish Burrows (C8)				
Drift Deposits (B3)	_	Thin Muck Surface (	C7)	Saturation Visible on Aerial Imagery (C9)				
Algal Mat or Crust (B4)	_	Other (Explain in Re	emarks)	Stunted or Stressed Plants (D1)				
Iron Deposits (B5)					Position (D2)			
Inundation Visible on Aeri				✓ Shallow Aqu	` '			
Water-Stained Leaves (B	9)			Microtopogra ✓ FAC-Neutra	aphic Relief (D4)			
Aquatic Fauna (B13)			<del></del>	FAC-Neutra	Test (D5)			
Field Observations:	Yes No _ 🗸	Donath (in all an)						
Surface Water Present?	4		4					
Water Table Present?			0 Wetland I					
Saturation Present? (includes capillary fringe)	Yes No	_ Depth (inches):	Wetland I	Hydrology Prese	nt? Yes No			
Describe Recorded Data (stre	am gauge, monitoring	well, aerial photos, pre	evious inspections), if ava	ailable:				
Remarks: Saturated to the surface.	Eloodoloin with a	any amall ahann	olo ruppina through l	orgo wotland o	nomploy			
Saturated to the surface.	. Flooupiain with n	iany Smail Channe	eis ruilling illiough i	arge welland c	omplex.			

### **VEGETATION** (Four Strata) – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')			Status	
1. Acer rubrum	30		FAC	Number of Dominant Species That Are OBL, FACW, or FAC:5 (A)
2. Betula nigra	5			That Ale OBE, I AOW, OI I AO.
			FACW_	Total Number of Dominant
3. Plantanus occidentalis	25		FACW_	Species Across All Strata: 6 (B)
4. Quercus phellos	10		FAC	Descent of Descinant Councils
5. Liquidambar styraciflua	10		FAC	Percent of Dominant Species That Are OBL, FACW, or FAC: 83.3 (A/B)
6				That Ale OBE, 1710W, 011710.
7.				Prevalence Index worksheet:
<i>I</i>	80	<del></del>		Total % Cover of: Multiply by:
4 40		= Total Cov		OBL species x 1 =
50% of total cover: <u>40</u>	20% of	total cover:	16	
Sapling/Shrub Stratum (Plot size: 15'				FACW species x 2 =
1. Ulmus americana	5		FACW_	FAC species x 3 =
2. Viburnum dentatum	5	<b>✓</b>	FAC	FACU species x 4 =
Rosa multiflora	8	<u> </u>	FACU	UPL species x 5 =
<u> </u>		-	1.71.00	Column Totals: (A) (B)
4				(3)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
				✓ 2 - Dominance Test is >50%
9	40			3 - Prevalence Index is ≤3.0 <sup>1</sup>
		= Total Cov		4 - Morphological Adaptations <sup>1</sup> (Provide supporting
50% of total cover: 9	20% of	total cover:	3.6	data in Remarks or on a separate sheet)
Herb Stratum (Plot size: 5')				
1. Microstegium viminium	75	<b>/</b>	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Impatiens capensis	10		FACW	
3. Pilea pumila	5		FACW	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
	4			be present, unless disturbed or problematic.
4. Carex vulpinoidea			F <u>ACW</u>	Definitions of Four Vegetation Strata:
5				
6				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
7				more in diameter at breast height (DBH), regardless of height.
8.				g
0				Sapling/Shrub – Woody plants, excluding vines, less
9				than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11				Herb – All herbaceous (non-woody) plants, regardless
	94	= Total Cov	er	of size, and woody plants less than 3.28 ft tall.
50% of total cover: 47		total cover:		, ,
Woody Vine Stratum (Plot size: 15')				<b>Woody vine</b> – All woody vines greater than 3.28 ft in
· · · · · · · · · · · · · · · · · · ·				height.
1				
2				
3				
4				Hydrophytic
5				Vegetation
	0	= Total Cov		Present? Yes V No No
50% of total cover: 0		total cover:	_	
		total cover.		
Remarks: (Include photo numbers here or on a separate sl	neet.)			

Sampling Point: W-IJ22-PFO

SOIL

Profile Desc	ription: (Describe t	o the depth	needed to docum	nent the in	ndicator	or confirm	the absence	of indicators.)	
Depth	Matrix		Redox	c Features	3				
(inches)	Color (moist)	%	Color (moist)	<u></u> %	Type <sup>1</sup>	Loc <sup>2</sup>	<u>Texture</u>	Remarks	
0-6	7.5YR 3/2	90	7.5YR 4/6	10_	<u>C</u>	M	Loam		
6-14	5Y 5/3	100					Sand		
14-20	5Y 3/2	100					FiSaLo		
			_		'				
					-				
									_
								-	-
									_
<sup>1</sup> Type: C=Co	oncentration, D=Depl	etion, RM=F	Reduced Matrix, MS	=Masked	Sand Gr	ains.	<sup>2</sup> Location: P	L=Pore Lining, M=Matrix.	
Hydric Soil I			<u> </u>					ators for Problematic Hydric Soils <sup>3</sup> :	
Histosol	(A1)		Dark Surface	(S7)			2	cm Muck (A10) (MLRA 147)	
	ipedon (A2)		Polyvalue Bel				<b>148)</b> C	coast Prairie Redox (A16)	
Black His			Thin Dark Sui			47, 148)	_	(MLRA 147, 148)	
	n Sulfide (A4) I Layers (A5)		Loamy Gleye Depleted Mat		F2)		_ P	iedmont Floodplain Soils (F19) (MLRA 136, 147)	
	ck (A10) <b>(LRR N)</b>		Redox Dark S		6)		V	ery Shallow Dark Surface (TF12)	
	Below Dark Surface	(A11)	Depleted Dark	•	,			Other (Explain in Remarks)	
Thick Da	rk Surface (A12)		Redox Depre	ssions (F8	3)				
	lucky Mineral (S1) (L	RR N,	Iron-Mangane		es (F12) <b>(</b>	LRR N,			
	147, 148)		MLRA 136		MI DA 42	C 400\	31		
	leyed Matrix (S4) edox (S5)		Umbric Surface Piedmont Flo					icators of hydrophytic vegetation and etland hydrology must be present,	
	Matrix (S6)		Red Parent M					less disturbed or problematic.	
	ayer (if observed):		_	(* -	, (	, , , , , , , ,	, <u></u>		
Type:									
Depth (inc	ches):		<u> </u>				Hydric Soil	Present? Yes No	_
Remarks:									

## Wetland Photograph Page

Wetland ID  $\underline{\text{W-IJ22-PFO}}$  Date  $\underline{\text{05/03/2016}}$ 



Photograph Direction East

Comments:			

Project/Site: MVP		City/County:	Pittsylvania		Sampling Date: 05/03/2016	
Applicant/Owner: MVP					Sampling Point: W-IJ22-PFO-UP	
Investigator(s): E. Foster, J. N	iergarth, B. Sch	rotenboer Section Tox	washin Range N/		<u> </u>	
Landform (hillslope, terrace, etc.):		· ·			Slone (%): 3	
Subregion (LRR or MLRA): LRR			Long: -79		Datum: NAD 83	
Soil Map Unit Name: 41a-Wehad						
Are climatic / hydrologic conditions		·				
Are Vegetation, Soil	, or Hydrology	significantly disturbed?	Are "Normal	Circumstances"	present? Yes No	
Are Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, $\epsilon$	explain any answe	ers in Remarks.)	
SUMMARY OF FINDINGS	6 – Attach site r	map showing sampling	g point locatio	ons, transects	s, important features, etc.	
Hydrophytic Vegetation Present?	? Yes ✓	No.				
Hydric Soil Present?	Yes	No V	e Sampled Area	Vaa	No 🗸	
Wetland Hydrology Present?	Yes		n a Wetland?	res	NO	
Remarks: Cowardin Code	5. LIDI VND	HGM:	Water Type:			
- Cowardin Code	OF LAIND	T TOWN.	water Type.			
HYDROLOGY						
Wetland Hydrology Indicators:	<u> </u>			Secondary Indica	ators (minimum of two required)	
Primary Indicators (minimum of o		ck all that apply)		Surface Soil		
Surface Water (A1)		True Aquatic Plants (B14)		·	getated Concave Surface (B8)	
High Water Table (A2)		Hydrogen Sulfide Odor (C1)	)	Drainage Patterns (B10)		
Saturation (A3)		Oxidized Rhizospheres on L		Moss Trim L		
Water Marks (B1)	_	Presence of Reduced Iron (	-		Water Table (C2)	
Sediment Deposits (B2)	<u></u>	Recent Iron Reduction in Til	led Soils (C6)	Crayfish Bur	rows (C8)	
Drift Deposits (B3)	_	Thin Muck Surface (C7)		Saturation V	isible on Aerial Imagery (C9)	
Algal Mat or Crust (B4)		Other (Explain in Remarks)		Stunted or S	Stressed Plants (D1)	
Iron Deposits (B5)				Geomorphic	Position (D2)	
Inundation Visible on Aerial	Imagery (B7)			Shallow Aqu		
Water-Stained Leaves (B9)				· -	aphic Relief (D4)	
Aquatic Fauna (B13)				FAC-Neutra	Test (D5)	
Field Observations:						
Surface Water Present?	res No	Depth (inches):				
		Depth (inches):				
Saturation Present? Y (includes capillary fringe)	res No	Depth (inches):	Wetland H	lydrology Prese	nt? Yes No	
Describe Recorded Data (stream	n gauge, monitoring	well, aerial photos, previous i	nspections), if ava	ilable:		
Remarks:						

#### **VEGETATION** (Four Strata) – Use scientific names of plants.

	Absolute	Dominant	Indicator	Dominance Test worksheet:
Tree Stratum (Plot size: 30')		Species?		Number of Dominant Species
1. Liriodendron tulipifera	30		FAC	That Are OBL, FACW, or FAC: 7 (A)
2. Acer rubrum	20	<b>~</b>	FAC	
3. Quercus phellos	10		FAC	Total Number of Dominant Species Across All Strata: 8 (B)
4. Juniperus virginiana	5		FACU	Operics Across Air Strata.
			1/100	Percent of Dominant Species That Are OBL, FACW, or FAC: 87.5 (A/B)
5				That Are OBL, FACW, or FAC: 87.5 (A/B)
6				Prevalence Index worksheet:
<i>1</i>	65			Total % Cover of: Multiply by:
50% of total cover: <u>32.5</u>		= Total Cover	4.0	OBL species x 1 =
Somble of Charles Charles (Plat size 15'	<u> </u>	lotal cover		FACW species x 2 =
Sapling/Shrub Stratum (Plot size: 15' )  1. Acer rubrum	5	<b>~</b>	ΓΛC	FAC species x 3 =
	5		FAC	FACU species x 4 =
2. Ulmus americana	<u>5</u>		F <u>ACW</u>	
3. Rosa multiflora	5		FACU_	UPL species x 5 =
4				Column Totals: (A) (B)
5				Prevalence Index = B/A =
6				Hydrophytic Vegetation Indicators:
7				
8				1 - Rapid Test for Hydrophytic Vegetation
9	-			✓ 2 - Dominance Test is >50%
<u> </u>	15	= Total Cov	/or	3 - Prevalence Index is ≤3.0 <sup>1</sup>
50% of total cover:				4 - Morphological Adaptations <sup>1</sup> (Provide supporting
Herb Stratum (Plot size: 5' )		10101 00101	·	data in Remarks or on a separate sheet)
1. Microstegium viminium	15	~	FAC	Problematic Hydrophytic Vegetation <sup>1</sup> (Explain)
2. Galium sp.	5		ND	
		· -	ואט	<sup>1</sup> Indicators of hydric soil and wetland hydrology must
3				be present, unless disturbed or problematic.
4				Definitions of Four Vegetation Strata:
5		. <u></u>		Tree Meady plants avaluding vines 2 in (7.6 cm) or
6				<b>Tree</b> – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
7				height.
8	-			One Provide the Manufacture and offered as a large
9				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than or equal to 3.28 ft (1
10				m) tall.
11.				
· ··· <u> </u>	20	= Total Cov		<b>Herb</b> – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
50% of total cover: 10		total cover		or orze, and woody plants loss than orzent tall.
Woody Vine Stratum (Plot size: 15' )	2070 0.	10101 00101	•	Woody vine – All woody vines greater than 3.28 ft in
1. Toxicodendron radicans	15	~	FAC	height.
2. Lonicera japonica	13		FAC	
			FAC	
3				
4				Hydrophytic
5				Vegetation
		= Total Cov		Present? Yes V No No
50% of total cover: 14	20% of	total cover	5.6	
Remarks: (Include photo numbers here or on a separate s	heet.)			
ND-Not Determined				

Negret   Matrix   Color (moist)
Cam
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Thiretic Soil Indicators:  Indicators for Problematic Hydric Soils²:  2 cm Muck (A10) (MLRA 147)  Coast Prairie Redox (A16)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 147, 148)  Piedmont Floodplain Soils (F19)  (MLRA 136, 147)  Very Shallow Dark Surface (TF12)  Other (Explain in Remarks)  Thick Dark Surface (A12)  Sandy Mucky Mineral (S1) (LRR N, MLRA 136)  Sandy Gleyed Matrix (S4)  Sandy Redox (S5)  Stripped Matrix (S6)  Red Parent Material (F21) (MLRA 127, 147)  Type: Depth (inches):  Hydric Soil Present? Yes No
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.  Type: C=Concentration, D=Depleted in, MS=Masked Sand Grains.  Thirition Call (1)  Type: D=Depleted Dark Surface (SP)  Type: D=Depleted Dark Surface (SP)  Type: D=Depleted Dark Surface (SP)  Type: D=Depleted Dark Surface (F1)  Type: D=Depleted Dark Surface (F2)  Type: D=Depleted Dark Surface (F3)  Type: D=Deplet
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains.    First
ydric Soil Indicators:  _ Histosol (A1)
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) Depleted Matrix (F3) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Depleted Matrix (F2) Depleted Matrix (F3) Redox Dark Surface (F6) Depleted Dark Surface (F7) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Mucky Mineral (S1) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Sandy Redox (S5) Stripped Matrix (S6) Black Histic (A3) Hydric Soil Present? Yes No
Black Histic (A3)
Stratified Layers (A5)
2 cm Muck (A10) (LRR N) Redox Dark Surface (F6) Very Shallow Dark Surface (TF12) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Other (Explain in Remarks) Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) MLRA 136) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation and Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No
Thick Dark Surface (A12) Redox Depressions (F8) Iron-Manganese Masses (F12) (LRR N, MLRA 147, 148) Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122) 3Indicators of hydrophytic vegetation and Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No \( \)
MLRA 147, 148)  _ Sandy Gleyed Matrix (S4)  _ Sandy Redox (S5)  _ Stripped Matrix (S6)  estrictive Layer (if observed):  Type:  _ Depth (inches):  MLRA 136)  _ Umbric Surface (F13) (MLRA 136, 122)  MLRA 148)  _ MLRA 148)  _ Wetland hydrology must be present,  wetland hydrology must be present,  unless disturbed or problematic.  Hydric Soil Present? Yes  No     No    MLRA 136)    Hydric Soil Present? Yes   No   V
Sandy Gleyed Matrix (S4) Umbric Surface (F13) (MLRA 136, 122)   Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present,  Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No ✓
Sandy Redox (S5) Piedmont Floodplain Soils (F19) (MLRA 148) wetland hydrology must be present, Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No V
Stripped Matrix (S6) Red Parent Material (F21) (MLRA 127, 147) unless disturbed or problematic.  estrictive Layer (if observed):  Type: Depth (inches): Hydric Soil Present? Yes No
Pestrictive Layer (if observed):  Type:  Depth (inches):
Type:
Depth (inches): Hydric Soil Present? Yes No V